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THE UNIVERSITY OF  
ILLINOIS COLLEGE OF  
MEDICINE • 1963 • 1965

UNIVERSITY OF ILLINOIS BULLETIN

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OF ILLINOIS  
BULLETIN**

Volume 60,  
Number 92;  
June, 1963.  
Published  
nine times  
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Entered as  
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11, 1912, at the  
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Publication, 49  
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**MEDICINE • 1963 • 1965**

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UNIVERSITY  
OF ILLINOIS  
PRESS

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## CALENDAR

### 1963 — FALL QUARTER

September 30, Mon. .... First day of classes  
November 28, Thurs. .... Thanksgiving Day  
December 21, Sat. .... Quarter ends

### 1964 — WINTER QUARTER

January 2, Thurs. .... Quarter begins for third-year and fourth-year students  
January 6, Mon. .... Quarter begins for first-year and second-year students  
March 21, Sat. .... Quarter ends

### 1964 — SPRING QUARTER

March 23, Mon. .... Quarter begins for third-year and fourth-year students  
March 30, Mon. .... Quarter begins for first-year and second-year students  
May 30, Sat. .... Memorial Day  
June 11, Thurs. .... Commencement exercises

### 1964 — SUMMER QUARTER

June 22, Mon. .... First day of classes  
July 4, Sat. .... Independence Day  
September 7, Mon. .... Labor Day  
September 12, Sat. .... Quarter ends

## UNIVERSITY OF ILLINOIS BOARD OF TRUSTEES

**MEMBERS  
EX OFFICIO**

**Otto Kerner**, Governor of Illinois, Springfield  
**Ray Page**, Superintendent of Public Instruction, Springfield

**ELECTED  
MEMBERS**

**Term 1959-65**

**Howard W. Clement**, 38 S. Dearborn Street, Chicago 3  
**Harold Pogue**, 705 N. Oakland Avenue, Decatur

**Term 1961-67**

**Irving Dilliard**, 407 Crestwood Drive, Collinsville  
**Mrs. Frances B. Watkins**, 5538 Harper Avenue, Chicago 37  
**Kenney E. Williamson**, Sixth Floor, Lehmann Building, Peoria 2

**Term 1963-69**

**Earl M. Hughes**, Hughes Farms, Route 1, Woodstock  
**Wayne A. Johnston**, 135 E. Eleventh Place, Chicago 5  
**Timothy W. Swain**, 912 Central National Bank Building, Peoria 2

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THE BOARD**

**Howard W. Clement**, President, Chicago  
**Anthony J. Janata**, Secretary, Urbana  
**Herbert O. Farber**, Comptroller, Urbana  
**R. R. Manchester**, Treasurer, Chicago

**COMMITTEE  
ON THE CHICAGO  
DEPARTMENTS**

**Mrs. Frances B. Watkins** (Chairman), **Wayne A. Johnston**  
**Harold Pogue**

## **ADMINISTRATIVE OFFICERS**

DAVID DODDS HENRY, Ph.D., LL.D., HH.D., Litt.D., L.H.D., D.Sc.Ed., Ped.D.,  
President of the University

LYLE H. LANIER, Ph.D., Executive Vice-President and Provost

JOSEPH SHERIDAN BEGANDO, Ph.D., Vice-President for the University of Illinois  
at the Medical Center, Chicago

GRANVILLE ALLISON BENNETT, B.S., M.D., Dean of the College of Medicine

DONALD JOSEPH CASELEY, A.B., M.D., Associate Dean of the College of Medicine  
and Medical Director of the Research and Educational Hospitals

WILLIAM JOHNSON GROVE, M.S., M.D., Associate Dean of the College of Medicine

NAT E. SMITH, A.B., M.D., Assistant Dean of the College of Medicine

GEORGE ROBERT MOON, A.M., Associate Dean of Admissions and Records for  
the Chicago Departments

JAMES ELMER OSBORN, B.S., Business Manager for the Chicago Departments

FRANK E. HOSTETTLER, B.S., Assistant Director of Physical Plant

WILMA TROXEL, A.M., Librarian in the Quine Library of Medical Sciences

MAURICE JACKSON GALBRAITH, M.S., Dean of Student Affairs

CARROLL J. HUBLE, B.S., M.S., Acting Director of Housing

MARVIN J. COLBERT, B.S., M.D., Director of Health Service for the Chicago  
Departments

GEORGE F. McGREGOR, A.M., Associate Director of Nonacademic Personnel

THE COLLEGE OF MEDICINE

7

## **THE GOALS OF THE COLLEGE OF MEDICINE, UNIVERSITY OF ILLINOIS**

The College of Medicine exists to promote improvement in the health of the public, and all of its varied activities are so dedicated.

The College of Medicine is committed to the education of physicians and other health personnel motivated toward and capable of a high standard of professional service and therefore must be a repository of existing knowledge, the source of new knowledge, and the driving force in the dissemination and utilization of both. It is recognized that there are various types of professional service rendered by physicians, such as general practice, specialty practice, research, teaching, preventive medicine, and administration. Each undergraduate student should become familiar with fundamental aspects of various possible professional roles and should be exposed to the intellectual stimulation inherent in each, so that he may choose that best suited to his own goals and abilities, so that he will have an adequate foundation for further training and growth toward his selected role, and so that he will better be able to integrate his professional activities with those who have assumed other roles. The College's concern for its student can not end with his graduation, but ought to continue throughout his professional career by means of programs of postgraduate medical education. Undergraduate experience should have inculcated the habits and desires for continued self-education.

The College should play a leading role in the extension of medical knowledge, and hence must attract superior investigators to its faculty, stimulate an interest in research among its students, and render unstinting support to all such research efforts.

The College should be ever mindful of other services to the community which may be uniquely in its province, and should willingly render such services provided that such acts are not in conflict with its primary goals of education and research.

The success of this mission depends primarily upon the faculty, which includes individuals with a variety of talents and interests, acting as a unit. This concept that a diverse but interrelated team is needed to

achieve the ultimate goals is negated when basic and clinical science, research and clinical excellence, general and specialty practice, laboratory and bedside teaching, investigator and teacher, clinician and administrator are arbitrarily separated. It should be the responsibility of the faculty to work for a fusion of the varied interests and disciplines. Techniques of teaching and learning should be regarded as a vital function of the College, and knowledge of these techniques should be accepted as essential armamentarium of the faculty. Those who elect to spend their professional careers in the environment of the College must assume the obligation of active participation in medical education. The College should represent a community of scholars dedicated to extending knowledge today and to preparing the scholars of tomorrow.

The search for the superior student, his being attracted to this College of Medicine, his stimulation, and the provision of opportunities for his maximum development must be regarded as responsibilities of the College and its faculty. The College must propagate its excellence in the physicians and other scientists which it produces. The roles of student and faculty must overlap as both contribute to the intellectual environment.

Inherent in such a program is constant self-examination and a willingness to change. The College must stand ready to change its program when it becomes apparent that the goals are not being achieved.

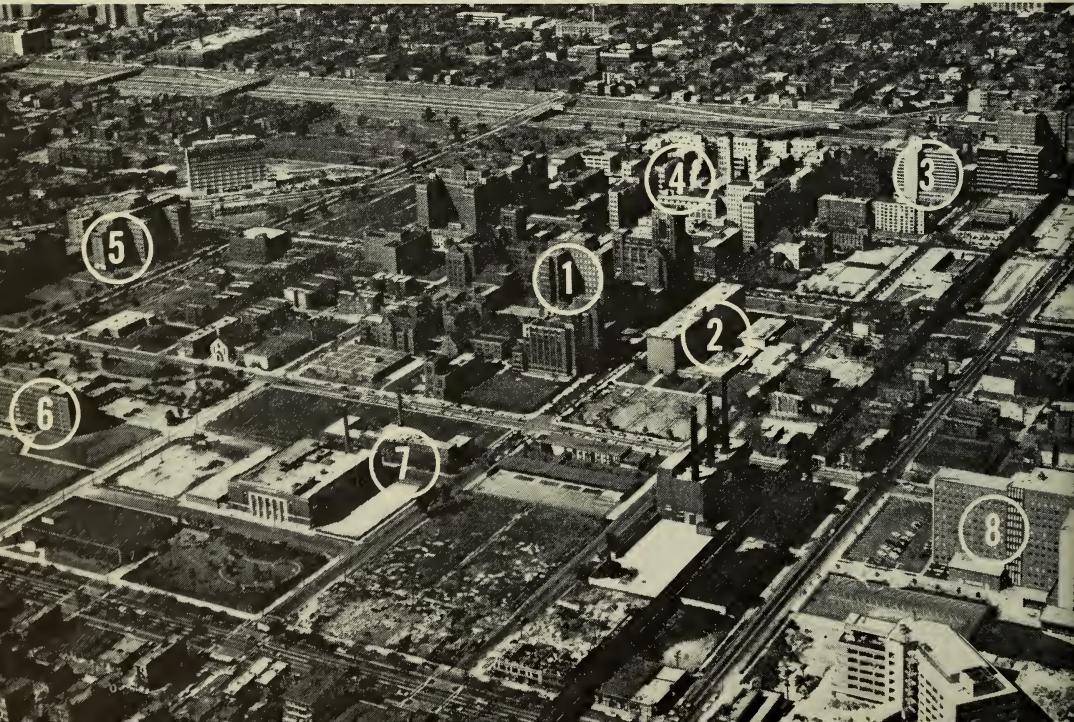
Inquiry into the health needs of the public and into ways and means of providing for these through programs of health care must remain essential obligations of the College. The College must, in balance with other responsibilities, contribute its specific knowledge and skills for the public good.

In keeping with its aim of leadership, the College of Medicine has as fundamental obligations: the attraction of a superior faculty and student body, unstinting support of research, recognition and appreciation of the gifted teacher, and, above all, provision of an intellectual climate where students and scholars at all levels may thrive.

1. Colleges of Medicine, Dentistry, and Nursing,  
and Research and Educational Hospitals
2. College of Pharmacy
3. Presbyterian-St. Luke's Hospital
4. Cook County Hospital
5. West Side Veterans Administration Hospital
6. Chicago-State Tuberculosis Sanitarium
7. State Department of Public Health Laboratories
8. Illinois State Psychiatric Institute

**UNIVERSITY OF ILLINOIS MEDICAL CENTER — CHICAGO, ILLINOIS**

Chicago Aerial Industries, Inc.



## **LOCATION, HISTORY, AND ADMINISTRATION**

### **Location**

The College of Medicine of the University of Illinois is located on the west side of Chicago in an area known as the West Side Medical Center. The work of the College, together with the related work in the Colleges of Dentistry, Pharmacy, Nursing, and the Graduate College, is centralized in the laboratory building facing on Polk, Wood, and Wolcott Streets. The campus, which is about two miles west of the Loop, or main business district of Chicago, can be reached conveniently by elevated train, bus, or automobile.

The University buildings contain the administrative offices of the College, the library, lecture rooms, classrooms and large laboratories for classwork, numerous small laboratories for individual research, an autopsy amphitheater, and the clinics and hospitals. The last include the University of Illinois Research and Educational Hospitals and the Neuro-psychiatric Institute. The Illinois Eye and Ear Infirmary is located near the campus. This infirmary is operated jointly by the University and the Illinois Department of Mental Health. Close to the college campus are the Presbyterian-St. Luke's Hospital, Cook County Hospital, Chicago-State Tuberculosis Sanitarium, West Side Veterans Administration Hospital, and the Illinois State Psychiatric Institute, all of which are used for student teaching.

### **History**

The College of Medicine was originally an independent institution. It opened October 14, 1881, as the College of Physicians and Surgeons of Chicago. It became affiliated with the University of Illinois under a lease in 1897, and in 1900 its name was changed to the College of Medicine of the University of Illinois. Not until 1913, however, did it become an integral part of the University. During most of its early history it was located on Harrison Street in the area now forming the Louis Pasteur Park. In 1931 the College was moved to its present quarters in the west unit of the Dentistry-Medicine-Pharmacy Building. In 1941 the Presbyterian Hospital (now merged with St. Luke's Hospital) became affiliated with the University, and members of the staff of Rush Medical College were incorporated into the faculty of the College of Medicine.

Graduate work has been offered in the Chicago departments since 1915. The present work of the Graduate College is described in detail in a separate catalog.

## **Administration**

The University of Illinois at the Medical Center includes the Colleges of Medicine, Dentistry, Pharmacy, and Nursing, each of which is administered in its internal affairs by its dean and its faculty. The Vice-President at the Medical Center Campus, under the direction of the President, serves as the chief administrative officer. The University of Illinois at the Medical Center has a separate Senate to deal with legislative matters of educational policy. Separate Senates are constituted for the Urbana-Champaign campus and for the Chicago Undergraduate Division of the University. A Senate Coordinating Council is organized to consider all matters acted upon by any of the three Senates and, if there is a need, to refer any action of one Senate to the other two Senates for final resolution.

## **HOSPITALS AND CLINICS**

### **Research and Educational Hospitals**

The University of Illinois owns and operates its Research and Educational Hospitals in order to have a solid core of facilities for support of the various educational programs which are based on "patient centered" activity. The Hospitals contain 611 beds and 50 bassinets, and the outpatient clinics, embracing all of the recognized specialties and many of the subspecialties, operate at a volume of 200,000 visits per year. Four distinct buildings connected by a tunnel system form this hospital complex. The first two units (the General Hospital and the Illinois Surgical Institute for Children) were constructed in the mid and late 1920's; the Neuropsychiatric Institute was completed in 1941 and the main, fourteen-story structure was occupied in 1953. The latter building houses the administrative offices, an Emergency Service, several of the outpatient clinics, the Dietary Department, Radiology Department, operating rooms, and the patient care facilities of the Departments of Surgery, Medicine, and Pediatrics. The staff offices and research facilities for these three clinical departments are also located in this building.

The major portion of the outpatient clinics are located on the first floor of the General Hospital. The Departments of Dermatology,

Obstetrics-Gynecology, Ophthalmology, and Otolaryngology with their patient care facilities are housed in this building together with the Hospital Laboratories, the Tumor Clinic, and Therapeutic Radiology and Isotope Laboratory. Departmental offices and classrooms of the Department of Occupational Therapy also occupy space here. The Section of Anesthesiology and the operating and recovery rooms are on the fourth floor.

The clinical facilities and staff offices for the Department of Orthopaedic Surgery and the Department of Physical Medicine and Rehabilitation are included in the building formerly referred to as the Illinois Surgical Institute for Children. The Neuropsychiatric Institute houses all the facilities (patient care, teaching, and research) for the Department of Neurology and Neurological Surgery in its north wing, and the south wing serves the same broad functions for the Department of Psychiatry.

The Emergency Service represents an integral part of the broad patient services offered and is equipped to care for virtually any emergency. It includes four examining rooms, two minor operating rooms, a complete laboratory, a radiographic-fluoroscopic installation, and two two-bed overnight observation units. Approximately 25,000 patient visits per year represent the current level of service.

The attending staff structure of College of Medicine faculty is built

University of Illinois Research and Educational Hospitals



around the concept of full-time department heads with varying numbers of full-time staff members. All departments are substantially strengthened by a number of attending physicians whose time varies from 90 per cent to those who are volunteers and receive no compensation. This balance in interest and skills is deemed important in providing the broadest possible intellectual stimulus to the house staff and the clinical clerks, for both the inpatient services and the outpatient clinics are used extensively in the medical student clerkship programs.

Patient admissions are limited to residents of the State of Illinois and payment for hospital services is based upon the patient's ability to pay. Selection for admission is dependent upon the patient's need for the high quality medical service which the University's Hospitals are prepared to render and the relationship of the medical care problem to the teaching and research needs of the College of Medicine and the Hospitals. The facilities available cover virtually every facet of medical science. Special studies and research projects frequently attract patients with unusual or refractory medical conditions; however, the spectrum of patients selected achieves a balance between the more commonplace conditions and the rare and exotic type.

Education for the medical student in the clinical years is predicated on the actual care of patients. This principle has been found to provide not only the most highly motivating method of learning but has served to sharpen the student's capacity for independent thinking and self-education. The student becomes an accepted (though junior) member of the medical care team during his clinical clerkship which represents the actual transition from classroom and laboratory centered academic experience to the role of the physician caring for his patient.

### **Other Hospitals**

**Presbyterian-St. Luke's Hospital.** This is a non-profit voluntary general hospital of 844 beds and 60 bassinets located approximately three blocks north of the College of Medicine. The hospital was formed by the physical merger in 1959 of St. Luke's Hospital, founded in 1864, and Presbyterian Hospital, founded in 1883.

Through an agreement between the Hospital Trustees and the Board of Trustees of the University of Illinois, Presbyterian-St. Luke's Hospital is formally affiliated with the College of Medicine.

The Departments of Medicine, Surgery, Radiology, Biochemistry, Pathology, Anesthesiology, Pediatrics, Ophthalmology, and Psychiatry have full time chairmen. Other sections such as Endocrinology, Hema-

tology, the Cardio-Pulmonary Laboratory, and the Isotope Laboratory also have full-time service chiefs. All members of the medical staff hold appointments to the faculty of the College of Medicine.

By tradition, every patient in the hospital is available for teaching purposes. There are facilities for free and part pay patients. The private patient aspect of the hospital precludes any atmosphere of total academic seclusion and brings the student into direct contact with the overall picture of current medical problems.

The hospital maintains a Medical Library which is available to the students. In addition to the inpatient services, the hospital runs a large outpatient clinic. During their junior and senior years students are assigned to Presbyterian-St. Luke's Hospital for clinical clerkships.

**Cook County Hospital.** A general hospital having 3,400 beds is located directly across the street from the College of Medicine and is used extensively in clerkship teaching.

**Chicago-State Tuberculosis Sanitarium.** This hospital for treatment of patients with tuberculosis is located in close geographic proximity to the College of Medicine. Some members of its staff are members of the faculty of the College of Medicine.

**Illinois State Psychiatric Institute.** The Illinois State Psychiatric Institute, operated by the Illinois Department of Mental Health, is available to medical schools located in Chicago for undergraduate and postgraduate instruction and for research.

**West Side Veterans Administration Hospital.** This Veterans Administration Hospital is located two blocks west of the College of Medicine. Its training program is under the supervision of a Deans' Committee consisting of the deans of the University of Illinois College of Medicine, the Stritch School of Medicine of Loyola University, and the Chicago Medical School, and two members of the faculty of the University of Illinois College of Medicine. Each member of the professional staff of the hospital holds an appointment in one of the three medical schools in the area and participates in the instructional program of undergraduate students and residents.

**Hines Veterans Administration Hospital.** This hospital is located twelve miles west of the Medical Center. Its training program is under the supervision of a Deans' Committee consisting of the deans of the University of Illinois College of Medicine, the Stritch School of Medicine of Loyola University, the Chicago Medical School, and Northwestern University Medical School. The hospital facilities are used for certain instructional programs.

**Illinois Eye and Ear Infirmary.** The infirmary, operated jointly by the Illinois Department of Mental Health and the University, has 120 beds and is staffed by members of the College of Medicine faculty. It is used largely for resident and postgraduate training in ophthalmology and otolaryngology.

**Division of Services for Crippled Children.** This is an administrative unit of the University of Illinois at the Medical Center which operates a statewide program of medical, surgical, and other rehabilitative services for children who are afflicted with a wide variety of handicapping conditions. It is Illinois' official crippled children's medical care agency. Facilities for diagnosis, hospitalization, and follow-up care are provided, utilizing various resources throughout the state, including the Research and Educational Hospitals. This Division conducts 260 general and special clinics in 40 communities staffed by pediatric, orthopaedic, speech and hearing, social service, and public health nursing consultants. Teaching and research relationships are maintained in the program of the Center for Handicapped Children. Liaison is maintained with the Children's Bureau of the Department of Health, Education, and Welfare as well as with the state of Illinois official public agencies related to health, welfare, instruction, and vocational rehabilitation.

## **LIBRARY**

The library's collection is a comprehensive one of standard and modern works on dental, medical, nursing, pharmaceutical, social work, and allied scientific subjects, with some 2,000 current periodicals and more than 150,000 volumes on its shelves. Its facilities are available for reference use, and most materials may be withdrawn for use outside the reading rooms.

## **MUSEUMS**

The College has two museums: the Anatomy Museum, including gross anatomy, histology, embryology, and neurology; and the Pathology Museum, including gross specimens for purposes of instruction of undergraduate and postgraduate students of medicine.

## **RECREATIONAL FACILITIES**

The social and recreational center for students, alumni, and faculty

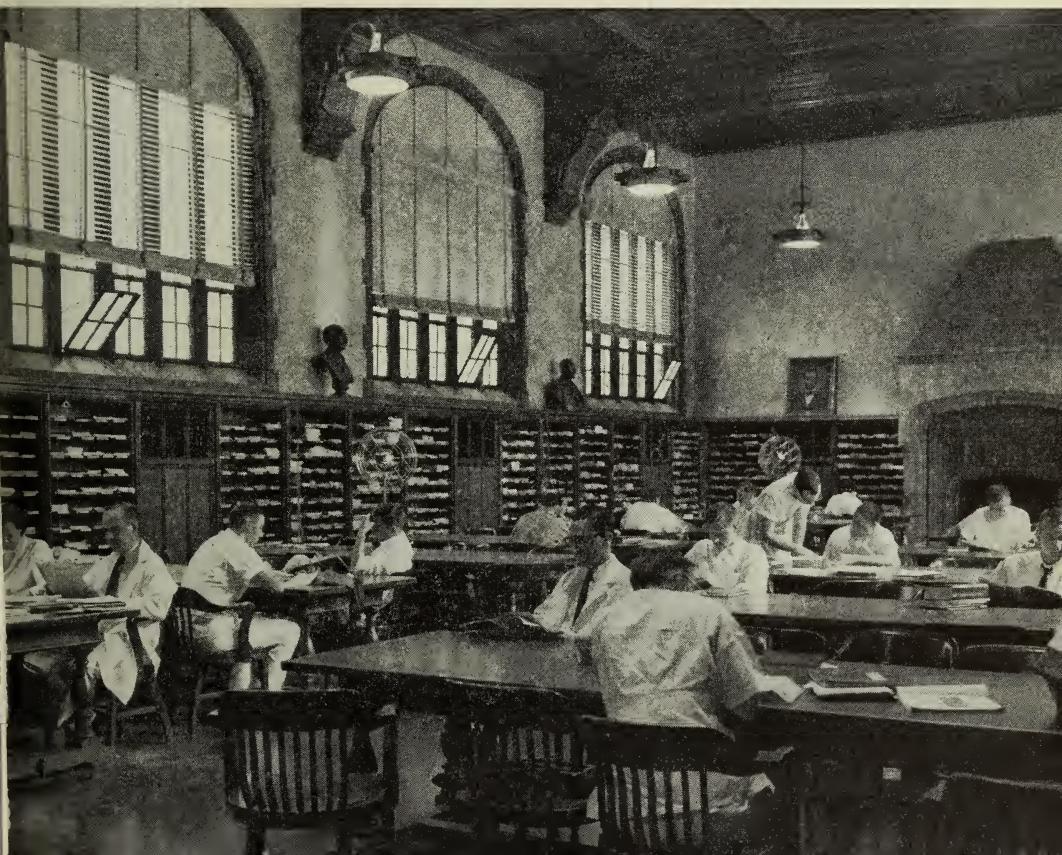
members is the Chicago Illini Union Building, 715 South Wood Street. Its facilities include a cafeteria, grill, soda fountain, browsing room, music room, gymnasium, meeting rooms, and game rooms. Intramural sports under a trained director are encouraged, and facilities and equipment are available for indoor and outdoor sports. Through special arrangements, the swimming pool and handball courts of the Duncan Y.M.C.A. are available to male students.

## HOUSING

Students and staff members of the University may be housed in either the Student Residence Hall or the Staff Apartment Building. Both facilities offer convenient and comfortable living quarters at reasonable rates.

The facilities of the Student Residence Hall include a modern food service kitchen, cafeteria, and coffee bar where meals and snacks are

One of Two Reading Rooms in the Quine Library of Medical Sciences



served daily. The building accommodates 412 persons in 196 double, 13 single, and seven counselor rooms. Each floor is equipped with a central shower and washroom. Other conveniences provided include a laundry room, pressing rooms, a recreation room, a lounge-television room, and two automatic elevators.

Cost for accommodations in the Student Residence Hall covers room and board, which includes twenty meals a week. This cost also includes the services of housemen for general maintenance work and maids who make beds and clean rooms.

A staff of seven counselors supervises the social-recreational program, living and study conditions, and also aids in the personal problems of the students. A student government promotes and maintains an effective program of self-government.

Assignments to the Student Residence Hall are based upon established occupancy and date of application. The contracted period is for the entire academic year. Payments may be made in full at the beginning of the academic year, quarterly, or by monthly installments in advance.

**Student Residence Hall**



## **REQUIREMENTS FOR ADMISSION**

The University of Illinois College of Medicine has a primary responsibility to educate future physicians, and therefore the Admissions Committee must select those applicants who demonstrate best the academic achievement, emotional maturity, integrity, and motivation necessary for the successful study and practice of medicine.

### **General Regulation and Directions**

Applications for admission to the College of Medicine should be addressed to the Office of Admissions, 1853 West Polk Street, Chicago 12, Illinois. Applications must be received between July 1 and December 31 of the year prior to enrollment. In addition to the completed application form, the applicant is responsible for seeing that the following credentials required of all applicants are sent directly from their original sources to the Office of Admissions:

1. Official transcripts from each college attended.
2. Results of the Medical College Admission Test.

Unless the grade-point average is below the minimum required, the applicant will be requested to procure additional reference materials. These include recommendations and report of health evaluation.

Although a personal interview usually is required of each student who is accepted, the Committee reserves the right to take favorable or unfavorable action on the basis of materials submitted without inviting the applicant to appear for an interview. An interview is arranged for any applicant who requests it.

### **Scholastic Requirements**

The courses required are listed in detail because they represent the minimum preparation upon which the medical curriculum is based. The Admissions Committee is interested in observing evidence of a capacity for mature and independent scholarship and in discouraging rigid patterns of course work. Therefore, the Committee considers the quality of work of each applicant in all areas, the breadth of education, and the achievement in advanced courses.

**Course Requirements.** Each applicant must have at least ninety-four semester hours of acceptable credit from a recognized college or university, exclusive of military, hygiene, and physical education, distributed as follows:

	HOURS
Chemistry (including, in addition to introductory courses, four hours of organic chemistry and three hours of quantitative analysis).....	14
Physics (including the study of nuclear physics and laboratory work in mechanics, heat, sound, light, and electricity).....	8
Biology (including laboratory courses in general zoology, vertebrate zoology or comparative anatomy and general embryology).....	10
English .....	6
Foreign Language.....	6
This requirement is waived if the student has completed four years of one language in high school or completes the last course of a two-year college language sequence. Non-science courses must replace the language in such a case.	
Social Science and Humanities (at least three hours from each area)...	16
The following are considered social sciences: anthropology, economics, geography, history, political science, psychology, and sociology; humanities include literature (American, English, foreign), advanced composition, philosophy, and the fine arts.	
Advanced Hours (to be selected in one department from courses not ordinarily open to freshmen and sophomores).....	6
Electives (at least four hours non-science).....	28
<i>Total</i> .....	<u>94</u>

The course requirements as stated above must be met in full by July 1 of the year of enrollment. The Admissions Committee may waive full compliance with the above requirements if the applicant possesses unusual qualifications.

**Grade Requirement.** A grade-point average of not less than 3.5<sup>1</sup> or its equivalent as determined by the University for institutions using a different grading system is required. The grade-point average is computed by using the grades earned in the required courses. In instances in which the hours of credit earned in areas other than biology, chemistry, physics, English, and foreign language amount to more than fifty hours (including acceptable graduate courses exclusive of seminar and research) the grade-point average is calculated on the most recent fifty hours of work in the other areas plus the grades earned in the required courses in biology, chemistry, physics, English, and foreign language.

<sup>1</sup> In a system of four passing grades, A, B, C, and D, the grades are translated into figures as follows: A = 5; B = 4; C = 3; D = 2; E = 1. Where there are more or fewer than four passing grades, the computation is adjusted to make the same level of accomplishment apply. The individual grades are multiplied by the respective number of semester hours which each represents, and the sum of these products is divided by the total number of semester hours taken. In the case of repeated courses both grades earned are counted in computing the average.

## **Special Requirements**

**The Medical College Admission Test.** All candidates are required to take the Medical College Admission Test recommended and approved by the Association of American Medical Colleges.

**Preference to Illinois Residents.** In considering applications for admission to the College of Medicine, the Committee on Admissions gives preference to candidates who are residents of Illinois. Nonresidents may be accepted in numbers up to 10 per cent of any incoming class. Places in the first-year class to be filled by residents of Illinois are assigned to applicants from Cook County and to applicants from outside Cook County in the proportion which each area bears to the total population of the state according to the latest federal census, provided that if at any time the places available for either area are not filled, the remaining places may be assigned to applicants from the other area. On this basis at the present time, the places in the first-year class assigned to Illinois residents are distributed between applicants from Cook County and applicants from counties other than Cook in approximately equal numbers.

**Physical Examination and the Health Service.** Each applicant who is tentatively accepted must have a physical examination by a physician on the staff of the University Health Service on this campus. A chest X-ray is also taken at this time.

It is strongly urged that each applicant, after acceptance, visit his physician and dentist in order to attend to such items as dental repairs and fitting for glasses. After school has begun, the student finds it difficult to have these essential things carried out without loss of time from classes. It is also required that each student have a smallpox vaccination and immunizations for typhoid fever, tetanus, poliomyelitis, and diphtheria within a five-year period prior to registration, and his physician must certify the dates on which these procedures were performed.

A tuberculin test is performed on all medical students during the first year of medical school, and subsequent tuberculin tests are recommended if indicated. All students are urged to have annual chest X-rays during their years in medical school, and a chest X-ray is required before graduation.

**Deposits.** Each applicant who is assigned a place in any class in the College of Medicine is required to make a deposit of \$60.00 by January 15 or within two weeks of the date of notification, if notified after that date that he will be admitted. This deposit is applied on fees assessed against him at the time of registration. Failure to pay this deposit

within the specified time subjects the applicant to forfeiture of his place. Twenty dollars of the deposit is returned if the applicant notifies the Office of Admissions and Records, at least thirty days before the time for registration, that he will not be able to enter. The Dean of Admissions and Records is authorized to make refunds after that time when, in his judgment, the circumstances so justify.

### **Other Information**

**Renewing Applications.** An applicant who has been accepted for admission but fails to enroll, and who wishes to enter in a subsequent year, must reapply for admission and must meet all the requirements in force at the time of the new application.

**Admission with Advanced Standing.** It is possible to admit a limited number of transfer students to the third-year class in the College of Medicine. In considering applications, the Committee on Admissions gives preference to the candidates who present the strongest scholastic records. Except in unusual cases, no student who is on probation or who has been dropped for any reason from a medical school is considered for admission.

**Bachelor's Degree.** The College of Liberal Arts and Sciences on the Urbana campus accepts a total of thirty-two hours of credit from the first year at the University's College of Medicine to enable the student to complete the requirements for a bachelor's degree as well as a medical degree in seven rather than the usual eight years. This program requires that (1) the student be in good standing in the College of Medicine; (2) work taken at the College of Medicine does not duplicate work taken in premedical courses; (3) the student complete the third or last year of premedical study, consisting of at least thirty hours of credit, on the Urbana campus; and (4) the student meets all requirements for graduation from the College of Liberal Arts and Sciences.

The following are the College of Medicine courses accepted by the College of Liberal Arts and Sciences and the majors to which they apply:

1. Biochemistry 301, 302, and 303, to be applied to a chemistry major or for elective credit at the upper-division level for a total of six semester hours.
2. Physiology 301, 302, and 303, to be applied to a physiology and zoology major or for elective credit at the upper-division level for a total of ten semester hours.

3. Histology, to be applied to a zoology major or as elective credit at the upper-division level for a total of eight semester hours.
4. Gross Anatomy, to be applied to a zoology major or for elective credit at the upper-division level for a total of eight semester hours.

## **REQUIREMENTS FOR GRADUATION**

Degree candidates must meet general University requirements with respect to scholastic achievement<sup>1</sup> and the discharge of financial obligations.

### **Degrees**

In addition to general University requirements for graduation, each curriculum has specific requirements.

**Doctor of Medicine.** The degree of Doctor of Medicine is awarded to those candidates who have successfully completed four years of an approved undergraduate educational program in medicine of which at least the last year must have been at the University of Illinois and who have demonstrated to the faculty of the College of Medicine a level of academic accomplishment, emotional maturity, and integrity requisite to the continued study and practice of medicine.

**Bachelor of Science in Occupational Therapy.** Awarded on completion of a ten-semester curriculum, six semesters of which are taken on the Urbana campus and an equivalent of four on the Chicago campus and in affiliated hospitals. A minimum total of 180 quarter hours (120 semester hours) is required for graduation.

### **Honors**

A student who complies with the requirements for graduation, and who attains in all work presented for the degree the average grade specified below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, graduation with honors; for an average grade of not less than 4.75, graduation with high honors. The honors awarded are noted on the diploma and in the Commencement Program.

## **SPECIAL COURSES FOR PHYSICIANS**

The College of Medicine offers a number of special advanced

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<sup>1</sup> The University requires a 3.0 average in total hours for graduation.

courses which are open to graduates of approved medical schools. The fee for each full-time course is \$50.00 a month or \$150.00 a quarter, plus laboratory and clinic fees. Part-time postgraduate students in short courses pay \$25.00 a day for nonlaboratory courses, \$35.00 a day for laboratory courses. These courses are not accepted by the Graduate College for advanced degrees, and no grades are given, but the University keeps a record of the registrations and of the time spent by each registrant. Descriptions of the courses appear in a special postgraduate section of this catalog.

## **FEES AND EXPENSES**

All fees are payable in full when the student registers unless the installment plan of payment is elected. The Board of Trustees of the University reserves the right to change the fees at any time through publication in the annual announcements.

A schedule of fees on an annual basis for regular full-time students in the College of Medicine is listed below. Fees are payable quarterly at the time of registration.

	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>
Tuition Fee.....	\$171.00	\$522.00	\$171.00	\$522.00	\$171.00	\$522.00	\$228.00	\$696.00
Service Fee.....	261.00	360.00	261.00	360.00	261.00	360.00	348.00	480.00
Hospital-Medical- Surgical Insur- ance Fee.....	18.00	18.00	18.00	18.00	18.00	18.00	24.00	24.00
Total.....	\$450.00	\$900.00	\$450.00	\$900.00	\$450.00	\$900.00	\$600.00	\$1200.00

**Late Registration Fee.** Former students who register after the regular registration days in any quarter pay a late registration fee of \$15.00.

**Special Examination Fee.** For any special examination to remove a failure, the fee is \$10.00.

**Study-List Change Fee.** A fee of \$1.00 is charged for every study-list change slip.

**Transcript Fee.** Each student who has paid all his University fees is entitled to receive without charge one transcript of his record. For each additional transcript the fee is \$1.00.

**Fees for Part-Time Students.** Residents of the State of Illinois registered in partial programs of 0 to 99 clock hours pay \$25.00 tuition and \$29.00 service fees per quarter. Residents registered in partial programs of 100 to 199 clock hours pay \$40.00 tuition and \$54.00 service fees.

Non-residents of the State of Illinois registered in partial programs of 0 to 99 clock hours pay \$75.00 tuition and \$29.00 service fees. Non-

residents registered in partial programs of 100 to 199 clock hours pay \$120.00 tuition and \$64.00 service fees.

In addition, all part-time students must pay a \$6.00 Hospital-Medical-Surgical Insurance Fee each quarter.

**Installment Fee.** Students electing the installment plan for payment of tuition and fees are required to pay a service charge of \$2.00. The service charge, not less than one-third of the current quarter's fees, and all fees and charges from previous terms must be paid on the day of registration. Failure to make payment of fees within the time limits cancels at once the privilege of attending classes. Registration is not completed until fees are paid in full, and no credit is recorded for class-work completed unless all fees and other charges have been paid in full.

**Refunds.** If a student withdraws within ten days after the beginning of instruction, refund is made of the full amount of tuition and fees assessed except for a non-refundable charge of \$20.00. After the first ten days but within the first half of the quarter, one-half of the total amount of the tuition and fees assessed which remains after deduction of the above mentioned amount is refunded.

### **Expenses**

From \$90.00 to \$125.00 a month may be regarded as adequate for the ordinary living expenses of a student in Chicago, exclusive of books, clothing, railroad fare, and miscellaneous needs. The expense for books varies between \$50.00 and \$100.00 a year. Board and room in the Student Residence Hall is \$860.00 for nine months, two students in a room. Each student is required to provide himself with a satisfactory microscope, a haemocytometer, and an ophthalmoscope. Members of the faculty check the condition of the microscopes upon request. Microscopes may be procured on a rental basis.

## **SCHOLARSHIPS, PRIZES, AND LOAN FUNDS FOR MEDICAL STUDENTS**

### **Scholarships**

**Ione Fisher Beem Scholarship.** Doctor Ione Fisher Beem, who graduated from the College of Medicine in 1913, bequeathed to the University \$10,000 to establish a scholarship fund, the income of which provides a scholarship for a woman medical student.

**Berkelhamer Scholarship.** A scholarship has been established by the

family of Doctor Ralph C. Berkelhamer, graduate of the University of Illinois College of Medicine, who died as a prisoner of war in October, 1944. One hundred dollars is awarded yearly to a deserving and needy student.

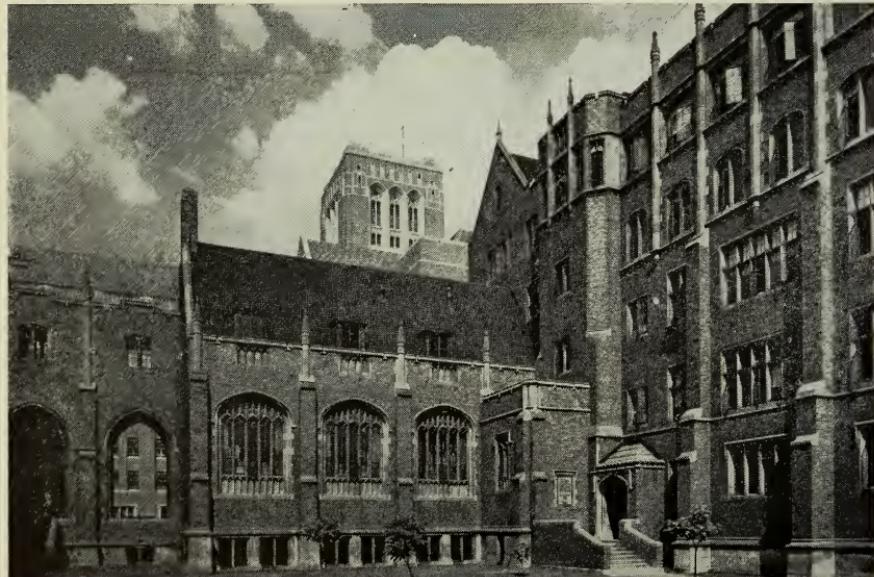
**Warren H. Cole Scholarship.** The Warren H. Cole Society annually gives \$500.00 to the University to be awarded to a freshman student who has performed in an outstanding manner during the first quarter of the freshman year.

**Moldavsky Scholarship.** This scholarship, presently amounting to \$500.00 a year, is available to a regularly enrolled student in the College of Medicine who is in need of financial assistance and who has demonstrated outstanding qualities in course work in physiology.

**David Mortimer Olkon Scholarship.** This scholarship will be awarded annually to two outstanding senior medical students in the Departments of Neurology and Psychiatry to be selected on the basis of excellence and scholastic standing by the Dean of the medical school and Heads of each of said departments.

**Rea Scholarships.** The annual income from a fund established in 1899 by the will of Doctor Robert Laughlin Rea is used for four scholarships, awarded by a committee of the faculty, to help pay the tuition fees

Courtyard Facing the Library



of needy students in the College of Medicine. First-year students are not eligible.

**Doctor Jerome D. Solomon Scholarship.** This scholarship, to be awarded to a deserving and needy medical student, was established by a gift from the Doctor Jerome D. Solomon Foundation. Doctor Solomon, who graduated from the University of Illinois College of Medicine in 1941, died in New Guinea during World War II and was posthumously awarded the Legion of Merit.

**Streicher Memorial Scholarship.** An endowment fund has been established by colleagues and friends of the late Doctor Michael Henry Streicher, who was a member of the Department of Medicine for many years. The income from this fund is used as a scholarship for a capable and needy student enrolled in the College of Medicine. Other things being equal, preference is given to sons or daughters of graduates of the University of Illinois College of Medicine. After the award is made, if circumstances warrant, the award is reassigned annually as long as the student is enrolled as an undergraduate in the College of Medicine.

**Williamson Memorial Scholarship.** Members of the faculty and friends of the late Professor Charles Spencer Williamson, for many years Head of the Department of Medicine, have established an endowment fund, the income from which is used as a scholarship for a capable and needy student, either graduate or undergraduate. The award is made by the Dean of the College of Medicine and the Head of the Department of Medicine.

**Woman's Auxiliary Scholarships.** The Woman's Auxiliary of the University of Illinois at the Medical Center at the present time offers two scholarships of \$250.00 each annually to students in the College of Medicine. The recipients are selected on the basis of scholarship, need, and adaptability.

**Yarros Scholarship.** This fund was established by Victor S. Yarros to continue the scholarship program begun in 1948 in memory of his wife, Doctor Rachelle S. Yarros, formerly Professor of Social Hygiene at the University of Illinois College of Medicine. Scholarship awards in varying amounts up to \$500.00 in any one year are available to deserving and needy students enrolled in the College of Medicine.

**General Assembly Scholarships.** Each member of the General Assembly may nominate, annually, one student from his district for a scholarship to the University. Provision is made for substitute appointments in case the original nominee fails to qualify or discontinues his

course. This scholarship exempts the holder from the payment of the tuition fees *only* in any course in the University for a period of four years.

**Military Scholarships.** Any person who is not receiving financial assistance for educational purposes from the federal government and who served in the Army, Navy, Air Force, or Marine Corps of the United States during World War I, or at any time after September 16, 1940, and who has been honorably discharged, is entitled to a scholarship to the University of Illinois if he possesses the necessary entrance requirements and if he was a resident of the state of Illinois or a student in the University of Illinois at the time of enlistment. This scholarship exempts the holder from the tuition fees in any course in the University for four years. Applications for these scholarships may be procured from the Office of Admissions and Records.

**Other Scholarships.** In addition to the scholarships listed above, funds are received annually from a variety of sources to provide financial assistance to medical students.

### **Prizes**

**Beaumont Memorial Prize.** The late Doctor Frank Smithies of Chicago endowed an annual prize in memory of William Beaumont, the famous surgeon of the nineteenth century. The prize is awarded by a committee to the student or faculty member of the College of Medicine who submits the best original work on diseases of the alimentary tract.

**Borden Undergraduate Research Award.** The Borden Company Foundation, Inc., has established a \$500.00 yearly prize for the student in the graduating class who during any year while enrolled in the College of Medicine as a candidate for the Doctor of Medicine degree is judged to have performed the most meritorious piece of research. Originality and thoroughness of the research are of primary consideration.

**Sigma Xi Prize.** The Society of Sigma Xi annually awards two prizes for excellence in graduate research. These prizes are available to any students in the Colleges of Medicine or Dentistry who are also registered in the Graduate College. On the basis of the research and its presentation, awards of \$300.00 and \$200.00 are made from funds provided by Mr. and Mrs. Charles E. Fawkes.

**Other Prizes.** Special prizes and awards are available annually from gifts and grants-in-aid. Such awards are publicized and administered by faculty committees.

## **Loan Funds**

Several loan funds have been established for the benefit of worthy students who are in need of financial aid in order to finish their courses. In general, long-term loans are not made to freshmen until they have satisfactorily completed one quarter of academic work. Further information concerning all loans and the regulations governing the funds may be obtained from the Office of Student Affairs.

**American Medical Association, Education and Research Foundation Loan Fund.** The American Medical Association, in cooperation with the Continental Illinois National Bank and Trust Company of Chicago, has established a sizable loan fund from which medical students, interns, and residents may borrow from \$400 to \$1,500 annually. Not more than \$10,000 may be borrowed over a seven-year period.

Repayment may be scheduled over a ten-year period after all training is completed. The interest varies slightly from time to time, but generally averages about 5½ per cent from the date the loan is made.

**Chicago Memorial Hospital Women's Auxiliary Loan Fund.** This fund, established in 1955 by a gift from the Women's Auxiliary of the Chicago Memorial Hospital, is for loans to needy and qualified students in the College of Medicine.

**Emergency Aid.** Emergency loans are made to students in the College of Medicine from a fund established by students and from general University money.

**Doctor Benjamin Goldberg Fund for Needy Students.** Doctor Benjamin Goldberg, an alumnus of the University of Illinois College of Medicine, has established a fund for needy students. The fund is administered by the Dean of Student Affairs, and the aid is in the form of a gift to the needy student.

**Frank Goodman Loan Fund.** A limited number of loans are made from a sum of money given to the University in honor of Doctor Frank Goodman, an alumnus of the University of Illinois College of Medicine. Loans from this fund are administered under the same rules and regulations applied to general University loan funds.

**Illinois Agricultural Association and State Medical Society Loan Fund.** The Illinois State Medical Society, through its committee on rural medical service, has a loan fund available for medical students who meet certain requirements.

The loans are administered by a committee of three physicians

selected by the State Medical Society and three farmers selected by the Illinois Agriculture Society.

In general, applicants for this type of loan must be from downstate counties where the patient-doctor ratio is high, and the applicant must sign a contract agreeing to carry on a general practice in one of the "priority counties" for a period of five years following completion of training. Application may be made to Mr. Roy Will, Illinois Agricultural Association, Bloomington, Illinois. Further information may be obtained in the Office of Admissions and Records.

**Long-Term Loan Fund.** Long-term loans are limited to \$1,000 for any one year and a maximum of \$2,500 while a student is attending the University of Illinois College of Medicine. Long-term loans bear interest at the rate of 3 per cent from the date of graduation.

**National Defense Education Act Loan.** A limited amount of federal money is available for loans to medical students who are in good standing and who are exceptionally needy. Details of this loan fund and application forms may be obtained in the Office of the Dean of Student Affairs.

**Poncher Foundation Fund.** A revolving loan fund created by friends of Doctor Henry George Poncher, former Professor and Head of the Department of Pediatrics at the University of Illinois College of Medicine, provides loans up to \$1,000 with liberal repayment privileges after the period of medical training is completed. Loans are limited to qualified junior or senior premedical students and medical students.

**Margaret Ann Schultz Loan Fund.** A sum of money given to the University from the estate of Margaret Ann Schultz is set aside specifically for loans to medical students. Loans from this fund are administered under the same rules and regulations applied to general University loan funds.

## **SCHOLARSHIPS AND LOAN FUNDS FOR OCCUPATIONAL THERAPY STUDENTS**

### **Scholarships**

There are a number of scholarships available to occupational therapy students from state, federal, and private organizations. These scholarships vary in amount, and are governed by regulations prescribed by the organizations. The organizations offering these scholarships include the Office of Vocational Rehabilitation, state mental health organiza-

tions, and fraternal organizations. Applications may be made to the Dean of Admissions and Records, 100a Administration Building, University of Illinois, Urbana, who is chairman of the committee which selects candidates. Recommendations of the director of the occupational therapy curriculum are considered in selecting candidates for the awards.

#### **Loan Fund**

**Kellogg Occupational Therapy Loan Fund.** A loan fund established in the College of Medicine by the Kellogg Foundation is reserved specifically for students in the Occupational Therapy curriculum. Loans from this fund bear interest at  $2\frac{1}{2}$  per cent beginning four months after graduation. Other regulations are the same as those for the general University loan funds.

### **LECTURESHIPS**

**Bacon Lectureship.** In 1927, when Doctor Charles S. Bacon, on reaching the retiring age, was made Professor of Obstetrics, *Emeritus*, members of the faculty and friends of Doctor Bacon contributed the sum of \$5,000 to found the Charles S. Bacon Lectureship in Obstetrics. The income from this fund is used to defray expenses of lectures given each year at the College of Medicine.

**Davis Lectureship.** The inauguration of the D. J. Davis Lectureship on Medical History was held on October 15, 1943. These lectures are maintained by interest on the funds subscribed by friends and associates of Doctor Davis, Professor of Pathology and Dean of the College of Medicine, *Emeritus*, who served the University for thirty years.

**Gehrmann Lectureship.** In 1924, in accordance with the will of Mrs. Albertina Gehrmann, widow of Doctor Adolph Gehrmann, for many years Professor of Bacteriology and Hygiene in the College of Medicine, the sum of \$10,000 was given for the support of an annual lectureship in memory of Doctor Gehrmann.

**Hedblom Lectureship.** In 1938 the Phi Beta Pi medical fraternity contributed a fund to establish an annual lectureship in honor of Doctor Carl Hedblom, who until his death was Professor of Surgery and Head of the Department. Doctor Hedblom had an international reputation in the field of chest surgery.

**Irish Lectureship.** In 1946 the Eta Chapter of Alpha Kappa Kappa fraternity endowed an annual lectureship as a memorial to the late Head of the Department of Pediatrics, Doctor Henry Irish.

## **ORGANIZATIONS**

### **Alumni Association of the College of Medicine**

PRESIDENT: Louis R. Limarzi '30, 910 North East, Oak Park, Illinois.

PRESIDENT ELECT: James A. Weatherly '33, 103 North 14th, Murphysboro, Illinois.

FIRST VICE-PRESIDENT: Carlo Scuderi '28, 104 South Michigan Avenue, Chicago 3.

SECRETARY-TREASURER: George W. Moxon '25, 2416 North Neva Avenue, Chicago 35.

### **Alpha Omega Alpha**

The international honorary medical society Alpha Omega Alpha was founded at the College of Medicine in 1902. High-ranking students in the third and fourth years are eligible for election to membership.

FACULTY ADVISER: Ira M. Rosenthal.

### **Pi Kappa Epsilon**

Pi Kappa Epsilon is a national honorary medical fraternity to which members are elected on the basis of character, personality, and professional qualities.

FACULTY ADVISER: Marvin J. Colbert.

### **Sigma Xi**

In 1928 the Society of Sigma Xi granted a charter for the organization of a chapter of this society at the College of Medicine. Its object is the promotion of research.

## **INSTRUCTIONAL PROGRAM**

In its determination to provide the students of this College of Medicine with the best possible educational opportunity, the faculty recently committed itself to a carefully designed and all-inclusive study of its educational programs. An Office of Research in Medical Education was created to lend direction and implementation to this study. Although studies of the program continue, there have been curricular changes which are reflected in this catalog.

The program is designed to place increasingly upon the student the responsibility for learning and to encourage to the fullest the develop-

ment of intellectual curiosity. In all years of study from the first through the fourth, the program is designed to teach the scientific method, to promote learning by problem-solving, and to develop the skills and attitudes of a mature physician.

During the first two years the curriculum provides for the study of the sciences that are basic to medicine (anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology). Throughout this period emphasis is placed on correlation and integration of subject matter, and an opportunity is provided to the student to learn much concerning physical and emotional growth and development of human beings. Increasingly in the sophomore year, the student acquires familiarity with the methods and techniques of evaluating patients and the disorders which affect them.



Statue of Apollo in the Central Court of the Campus of the Chicago Professional Colleges. Erected in 1946, this statue commemorates the founding of Alpha Omega Alpha, medical honor society, on this campus in 1902.

The third and fourth years are devoted principally to the study of clinical subjects. The program of teaching and learning is conducted principally in the clinical clerkships in the wards and outpatient departments of the University hospitals and the affiliated teaching hospitals. The clerkships provide an opportunity for the student to examine, observe, and evaluate patients under close supervision and to correlate knowledge and understanding of the basic sciences with the clinical practice of medicine. Supplemental information is provided by means of lectures, conferences, assigned reading, and library research.

The third-year program is built around clerkships in medicine, pediatrics, and surgery, each of twelve weeks' duration. In the fourth year the program is divided into four twelve-week quarters as follows:

- a) One quarter of obstetrics and gynecology
- b) One quarter of medicine and surgery
- c) One quarter of outpatient work in which medicine, surgery, psychiatry, and dermatology are emphasized
- d) One quarter of elective work (alternative program quarter)

The subject matter presented within the programs is defined in course descriptions of individual departments in the following sections of the catalog. Attention is directed to department course numbers 399 which explain opportunities for elective work in the alternative program quarter.

#### **SUMMARY OF INSTRUCTIONAL PROGRAM**

##### **A. Required Programs**

Subjects	First Quarter		Second Quarter		Third Quarter		Total Clock Hours
	Didactic	Laboratory	Didactic	Laboratory	Didactic	Laboratory	
<b>FIRST YEAR</b>							
Anatomy (Gross).....	12	54	12	54	12	54	198
Histology.....	22	44	22	44	0	0	132
Neuroanatomy.....	0	0	0	0	12	22	34
Biological Chemistry.....	44	0	44	0	0	55	143
Basic Science Clinic.....	4	0	4	0	4	0	12
Physiology.....	22	0	44	22	37	22	147
Psychiatry.....	11	0	11	0	11	0	33
Total.....	115	88	147	110	96	133	699
<b>SECOND YEAR</b>							
Examination of the Patient.....	8	33	11	30	11	30	123
Medicine and Pediatrics.....	0	0	0	0	22	0	22
Microbiology.....	33	66	22	44	0	0	165
Pathology.....	55	77	44	77	44	77	374
Pharmacology.....	0	0	44	33	33	22	132
Preventive Medicine.....	5	0	6	0	11	0	22
Psychiatry.....	11	0	11	0	0	0	22
Radiology.....	0	0	0	0	11	0	11
Surgery.....	0	0	0	0	22	0	22
Total.....	112	176	138	184	154	129	893

### THIRD YEAR

#### Clerkship Programs

Medicine (includes Internal Medicine and medical subspecialties) . . . . .	1 quarter
Surgery (includes Surgical Pathology and surgical subspecialties) . . . . .	1 quarter
Pediatrics . . . . .	1 quarter
Psychiatry . . . . .	1/2 day per week for two quarters during Medicine and Pediatric clerkships

#### Summary of Lecture Program (one hour per day five days a week for three quarters)

Medicine and Pediatrics . . . . .	72 hours
Neurology . . . . .	24 hours
Obstetrics and Gynecology . . . . .	36 hours
Orthopaedics . . . . .	12 hours
Psychiatry . . . . .	12 hours
Surgery . . . . .	24 hours

#### Lecture Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
Fall . . . . .	Med.-Ped. *	Med.-Ped. *	Surg.	Ob.	Psych.
Winter . . . . .	Med.-Ped.	Med.-Ped.	Surg.	Ob.	Neuro.
Spring . . . . .	Med.-Ped.	Med.-Ped.	Ortho.	Ob.	Neuro.

All junior students attend all lectures throughout the year.

\* Pediatrics and medicine lectures are integrated in order to reduce duplication and to increase the number of subjects presented. They are also integrated with lecture series for sophomores.

### FOURTH YEAR

#### Clerkship Programs

Outpatient . . . . .	1 quarter
Medicine . . . . .	3 half days per week
Surgery . . . . .	3 half days per week
Psychiatry . . . . .	2 half days per week
Dermatology . . . . .	1 half day per week
Topographical Anatomy . . . . .	1 half day per week
Inpatient . . . . .	1 quarter
Medicine . . . . .	6 weeks
Surgery . . . . .	6 weeks
Preventive Medicine and Public Health . . . . .	1 half day per week
Obstetrics and Gynecology . . . . .	1 quarter
Alternative Quarter Programs (399 courses) . . . . .	1 quarter

(Available through the Departments of Dermatology, Medicine, Neurology, Obstetrics and Gynecology, Ophthalmology, Orthopaedics, Otolaryngology, Pathology, Pediatrics, Physical Medicine and Rehabilitation, Preventive Medicine, Psychiatry, Public Health, Radiology and Surgery.)

#### Summary of Lecture Program

Anesthesia . . . . .	12 hours
Dermatology . . . . .	24 hours
Legal Medicine . . . . .	12 hours
Neurology and Neurosurgery . . . . .	24 hours
Ophthalmology . . . . .	24 hours
Orthopaedics . . . . .	12 hours
Otolaryngology . . . . .	24 hours
Surgery . . . . .	12 hours

#### Lecture Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Summer . . . . .	Surgery	Derm.	Anesthesia	Ophth.	ENT	
Fall . . . . .		Derm.	Ortho.	Ophth.	ENT	Neuro. *
Winter . . . . .	Surgery	Derm.	Anesthesia	Ophth.	ENT	Neuro. *
Spring . . . . .		Derm.	Ortho.	Ophth.	ENT	Legal Med.

Senior students attend lectures for two quarters only, i.e., during the alternate and outpatient quarters. Therefore, each lecture series is repeated twice during the year. All lectures are one hour unless otherwise indicated.

\* Two hour lecture.

Appropriate assessments of student learning and progress are made periodically under the administration of the Committee on Student Appraisal. As a part of this procedure the examinations of the National Board of Medical Examiners (Part I at the close of the sophomore year and Part II at the close of the senior year) are required.

## **B. Elective Programs**

Opportunities exist for elective course work not for credit. Some courses are listed and others will become available from time to time. Arrangements for elective research programs may be worked out with individual departments.

## **COURSES OF INSTRUCTION**

The following list of courses is an alphabetic order of departments. The courses offered in each department are listed numerically. In the description of each course the letters F, W, Sp, and S indicate the fall, winter, spring, and summer quarters, and the periods of time required each week apply to the whole quarter unless the number of weeks is stated. Credit is calculated in clock hours.

## **ANATOMY**

*Professors:* REYNOLDS (Head of Department), COOPER (*Emeritus*), DU BRUL, KAMPMEIER (*Emeritus*), KREHBIEL, PLAGGE, SIMER, VON BONIN (*Emeritus*), ZIMMERMAN (*Emeritus*).

*Associate Professors:* JORANSON (*Emeritus*), LARRAMENDI, A. LA VELLE, MONSEN, SCHMIDT.

*Assistant Professors:* DE FEO, HUVER, MACRAE, MAIBENCO, VAN ALLEN.

*Research Associates:* F. LA VELLE, FAITH.

The course in anatomy is offered in the fall, winter, and spring quarters of the freshman year. It includes gross anatomy (301) which continues throughout the year, microscopic anatomy (302), including embryology, during the first two quarters, and neuroanatomy (303) in the final quarter. In each of these courses the essential morphological features and characteristics of the human body are emphasized, developmental concepts are stressed, and attention is given to situations in which morphological and functional interdependence is prominent. An attempt is made to emphasize the developmental and ever-changing aspects of living structures at different phases of life. Emphasis is necessarily laid upon the adult human organism.

The program in anatomy consists of three parts. That in gross anatomy is scheduled to meet from 9:00 a.m. to 12:00 noon on two days a week throughout the academic year. A number of lectures at first serve to orient and direct the student. After about five weeks, lectures are infrequent and are of an integrating nature. The laboratories are open for dissection until 10:00 p.m. on weekday nights, Monday through Friday, and all day Saturday.

In microscopic anatomy, lectures are held twice weekly and laboratory

work occupies the balance of those mornings. An attempt is made to emphasize developmental and the changing aspects of living structures at different times of life, and to relate the work in human anatomy to biological principles in order to provide a basis for subsequent medical study.

Neuroanatomy, in the spring quarter, occupies two half days a week. It considers the gross and microscopic relationships of the nervous system and is highly functional in approach. As in gross anatomy, much responsibility, under guidance, is placed upon the student to learn what is required of him.

Elective courses are available each quarter in conjunction with the Graduate College.

### **Required Courses — First Year**

301. **Human Gross Anatomy.** Dissection of the human body, consideration of development of organ systems, X-ray anatomy. 198 hours; continuous through F, W, and Sp.
302. **Human Histology.** Microscopic study of the tissues and organs, histogenesis, placentation, early embryonic development. 132 hours; continuous through F and W.
303. **Human Neuroanatomy.** Gross and microscopic structure, development of the central nervous system. 34 hours; Sp.

## **BIOLOGICAL CHEMISTRY**

*Professors:* WINZLER (Head of Department), BINKLEY, HORWITT, RAFELSON.

*Associate Professors:* JEFFAY, JOHNSON, KOHN, MATTENHEIMER, MYERS, WEISSMANN.

*Assistant Professors:* DUBIN, DECKER, DOUGHTY, GABALLAH, GLASKY, HAYASHI, INOUYE, KATHAN, LANGE, SAMACHSON, SKY-PECK, STEWART, TITCHENER.

Biological chemistry is a science in which the fundamental knowledge of the various branches of chemistry (analytical, inorganic, organic, and physical), physics, and biology are combined to seek a better understanding of the chemical constitution and processes of the living organism. The subject has two general aspects which extend the sciences of anatomy and physiology into the realm of the invisible: chemical structure is anatomy at the molecular level; the study of the chemical processes of the living organism is physiology at the molecular level.

The three-quarter course (fall, winter, and spring quarters of the first year) in biological chemistry required of all students in the College of Medicine emphasizes the chemical and biological principles involved in living processes with as much integration with the other preclinical sciences (anatomy, microbiology, pathology, pharmacology, and physiology) and clinical sciences as seems feasible at this stage of medical education. A foundation is laid upon

which the student can and must build as other subjects are studied, if the full benefits of chemistry to clinical medicine are to be obtained. Stated in more detail, the course has four principal objectives: (1) to teach students to think in terms of chemistry about physiological processes and changes; (2) to develop an appreciation of quantitative thinking and action; (3) to develop technical skill; (4) to familiarize students with some of the more important clinical chemical concepts.

Opportunities are offered, to the extent that facilities are available, for advanced study and research for those students who wish further knowledge and experience in this field. Such students should consult the department for further information.

### **Required Courses — First Year**

**301-302-303. Biological Chemistry.** Chemistry of the constituents of tissues and body fluids, and current methods for their qualitative and quantitative determination; digestion, absorption, and intermediary metabolism of lipids, proteins, and carbohydrates in health and disease, and the role of hormones, vitamins, and enzymes in the regulation of these processes; the application of this knowledge to the problems of disease. Lectures, conferences, and laboratory. Four hours each week, F and W; five hours each week, Sp.

## **DERMATOLOGY**

*Professors:* ROSTENBERG (Head of Department), CORNBLEET, WEBER (*Emeritus*).

*Associate Professors:* FINNERUD (*Emeritus*), BARSKY, BECKER, FALK, GRIFFITH, HAEBERLIN, NEUHAUSER, POTTER, ROBIN, SHELLOW, SLEPYAN, SZYMANSKI, TAVS.

*Assistant Professors:* BIELINSKI, DISTELHEIM, PEARL, RUBIN, SMITH, YAFFE.

*Instructors:* ALESHIRE, KROLL, MEDANSKY, SPINKA, WEINSTEIN.

*Assistants:* BAILEY, BOGDONOFF, BURGESS, DIAMOND, FOX, HANDLER, SCHMEROLD, TONKENS.

Diseases of the skin comprise a high proportion of the cases seen by many physicians. To acquaint the student with the many disorders that may affect the skin, the subject of dermatology is taught throughout the junior year.

Some cutaneous disorders, such as certain tumors or contact dermatitis, manifest themselves only in the skin. Other skin lesions are expressions of underlying systemic disease. It is important that all physicians, general practitioners and specialists alike, become familiar with these clues to diagnosis.

A course of lectures covering the most common diseases of the skin is given during the senior year. Emphasis is placed on the diseases most likely to be

seen in practice and on those having systemic significance. Consideration is also given to the diagnosis and treatment of industrial dermatoses and to the preventive measures that are available. The role of allergy in dermatology and the psychosomatic aspects of skin diseases are considered. Syphilis from the point of view of morphologic diagnosis, serologic diagnosis, and therapy is considered. Colored lantern slides both of clinical cases and histopathologic sections are used extensively as visual aids.

### **Required Courses — Fourth Year**

350. **Lectures on Dermatology and Syphilis.** A formal coverage of the entire field of dermatology by means of lectures, kodachromes, and demonstrations. Discussion groups will be arranged at which individual students will present assigned dermatologic topics. Presented to half the class during the first two quarters and repeated for the second half in next two quarters. One hour a week; S, F, W, and Sp.

351. **Clinical Dermatology.** The presentation of cases with a discussion of diagnosis and therapy. Two students are assigned to a patient and are required to describe the lesions, to make a differential diagnosis, and to prescribe therapy. A senior staffman supervises the work of two pairs. Each pair sees three or four patients. After this, the entire group meets and each time different pairs of students present their cases to the whole group. Demonstrations are given of various procedures such as punch biopsies, freezing technics, cauterization, and electrodesiccation for the diagnosis and treatment of skin lesions. One half day a week during outpatient quarter; S, F, W, and Sp.

#### **Alternative Quarter Program**

399. **Dermatology.** This course provides additional clinical training in the diagnosis and therapy of skin diseases. The student participates in ward rounds and is given an opportunity to acquire the rudiments of dermatologic histopathology. Students also attend the skin clinic at Presbyterian-St. Luke's Hospital and the Municipal Venereal Disease Clinic. Limited to eight students; course meets every afternoon for six or twelve weeks. Selected students also are given an opportunity to participate in the departmental research. For such students, the course requires the entire day. Prerequisite: Dermatology 351. F, W, and Sp.

## **MEDICINE**

*Professors:* DOWLING (Head of Department), ABRAMSON, ALVAREZ (Lecturer, *Emeritus*), ARKIN (*Emeritus*), BIRCH, CAMPBELL, CAPPES, COTSONAS, EYERLY (*Emeritus*), FELDMAN, FISHBEIN (Lecturer, *Emeritus*), FOLEY, FREILICH (*Emeritus*), HIBBS (*Emeritus*), HICK, W. S. HOFFMAN (Lecturer),

JACKSON, KARK, F. B. KELLY (*Emeritus*), LIMARZI, LUETH, G. E. MILLER, M. M. MONTGOMERY, O. PAUL, PFUETZE, W. E. POST (*Emeritus*), RAPPAPORT, ROBERG, SAMTER, SCHWARTZ, STANLEY, S. STRAUSS (*Emeritus*), STUPPY, THOMAS (*Emeritus*), VANDERKLOOT (*Emeritus*), WOOD.

*Associate Professors:* AFRENOW, BARTON, BERG, A. BERNSTEIN, L. M. BERNSTEIN, BERRYMAN, BLISS, BREUHAUS, BYFIELD, COLBERT, T. J. COOGAN, FISCHER, FRANKLIN, GOLDBERG (*Emeritus*), GRAETTINGER, GRAY, GUNTHER, HELLER, IRONS, KENDRICK, KINNEY, KNIGHT (*Emeritus*), KORN, S. E. KRASNOW, LAST, LEVITT, LEVY (Lecturer), LICHTENSTEIN, LITTMAN, LUNDY, LUSK (*Emeritus*), McMILLAN, MOSKO, B. G. NELSON, J. T. PAUL, PERLMAN, PERLSTEIN (*Emeritus*), PILOT, POLLEY, RANKE, RAVENNA, A. H. ROSENBLUM (Lecturer), S. ROSENBLUM, SAPHIR, SCHICK, SCHOENBERGER, SHEAFF (*Emeritus*), SPELBERG, STECK, STEIGMANN, TAYLOR, TRAUT (*Emeritus*), TRIMMER (*Emeritus*), TROBAUGH, VANCE, WAKEFIELD (*Emeritus*).

*Research Associate Professor:* POLLAK.

*Assistant Professors:* AKRE, AMTMAN (*Emeritus*), ANAST, T. O. ANDERSON, BALDWIN, BECKER, BEERS, BESSINGER, W. R. BEST, BREBIS, BRIXEY, BRONSKY, R. G. BROWN, BROWNS, CARLETON, CARTON, COGESHALL, CRETICOS, DETWEILER, DEUSS (Lecturer), DE YOUNG, FARAGO, FELIX, B. W. FOX, FOXWORTHY, FRANZBLAU, FREUND, FRUIN, GALT, GARDINER (*Emeritus*), GOLDMANN, GOLDWASSER (*Emeritus*), GRIEBLE, GUNNAR, HALL, HAND, HILKEVITCH (*Emeritus*), HUDSON, HUNTER, JAGIELLO, F. W. JONES, P. N. JONES, B. M. KAPLAN, E. KAPLAN, KESLER, KIRKLAND, KOFMAN, KOIK, LAING (*Emeritus*), LAWRENCE, LEE, McCABE, MEHLMAN, MEYER, MORRISON, MUEHRCKE, MUENSTER, NECHELES, POSKE, J. POST, PREC (Lecturer), PYLE, RUGGIE, RYAN, SAPIENZA, SCHOOLMAN, SHAFTER, SHARP, SLAYTON, SMITH, STRAUS (Lecturer), TARUN, TOIGO, WEISBERG, G. A. WILLIAMS, WISS, WOLF, WOLFE, ZIVIN.

*Associates:* CIRZAN, COTTS, J. A. DAVIS, DE JONG, DiGILIO, GRIMELLI (*Emeritus*), GROSZ (*Emeritus*), HEDBLOM, R. N. HEDGES (*Emeritus*), HIGHSTONE, HOEPPNER, JOHNSTON, KIRBY, MAMBY, MATLIN, MAYER, NALEFSKI, NORA, O'BRIEN, ODEN, ROSKELLEY, SALBERG, SCALA, J. F. STRAUSS, TAUSK, TEPLITZ, THRIFT, VIL, VONDRASEK, J. L. WILLIAMS (*Emeritus*), ZVETINA.

*Research Associates:* LOUIS, MULDOON, M. S. ROSENBERG.

*Instructors:* ALBALA, E. T. ANDERSON, ARONSON, BERGER, J. D. BEST, BLATT, BLAZEK, BOWYER, BOXER, BRANIT, W. C. BROWN, BUDRYS, CARTER, CLAY, DADMUN, DALE, C. S. DAVIS, DEDMON, DILL, DIMICK, DYNIEWICZ, ECONOMOU, ELWOOD, ERICKSON, ESCOBAR, FISHMAN, FLANAGAN, FOTH, R. E. FOX, FREUD, GAILITIS, GARR, GEBUHR, HAASE, HAHN, HANASHIRO, HANSCOM, HAYES, R. N. HEDGES, JR., HENRY, HERTING, A. HOFFMAN, HOLMES, IGLITZEN, INAYATULLAH, INDREIKA, JAMIESON, JENSEN, J. C. JONES, KAGANIEC, KAHN, KASSRIEL, F. B. KELLY, JR., E. S. KRASNOW, KRISTY,

KULIS, LEWIS, LOCKHART, MANN, MARSI, MATIHY, McCREARY, MEDENIS, MEREDITH, C. MONTGOMERY, NEUSTADT, NEWMAN, O'BOYLE, OHRINGER, PENEV, PERLIA, PHELAN, PIETRAS, PRICE, PULOS, ROBBINS, ROSSET, SCHOLLY, SCHUESSLER, SCUPHAM, SILINS, SILVERMAN, SNAPP, STARR, STONE, TARZYNSKI, TAUBMAN, TUCKER, TWISS, WINTER.

*Assistants:* ABBOTT, A. J. ANDERSON, BIGELOW, BLAAUW, BONBREST, BRODY, CHITTY, CLARK, COHEN, T. J. COOGAN, JR., DARLING (on leave of absence for military service), DEANESLY, DONATH, EPSTEIN, ERLENBORN, FINER, HAMBY, LARSEN, LIBNOCH, LOVITZ, LOWE, LUCAS, E. B. MILLER, G. A. NELSON, NIBBE, PERKINS, PICKARD, REAM, REED, RICHARDSON, A. H. ROSENBERG, SAMAL, SAVILLE, SCARDINO (on leave of absence for military service), SHIMODA, SIMONE, SORSCHER, SUSMANO, TURCK, URENA, WAXMAN, WILCOX, ZIOLKOWSKI.

*Research Assistants:* ABBASI, BARCELO, CHATMAN, FLOWERS, GUBISCH, JOHNSON, KOZIJ, LABZARS, LOLANS, McCCLAIN, MELLODY, MODAI, NORENA, RUBENIS, TORRES.

#### **Required Courses — Second Year**

325. **The Examination of the Patient.** Instruction in history-taking and physical examination of the patient. Normal findings are demonstrated early in the course, and thereafter work on the wards of six hospitals deals with the close study of patients with abnormal findings. A one-hour lecture once a week deals with selected topics not covered in the texts. Special instruction is given in the Departments of Obstetrics, Orthopaedic Surgery, and Otolaryngology. Small sections of four students meet with an instructor for a three-hour practical teaching session once a week; F, W, and Sp.
326. **Systematic Study of Important Diseases.** Given in conjunction with the Department of Pediatrics. The first series of lectures covering the major diseases in the field of internal medicine. Two hours each week; Sp.

#### **Required Courses — Third Year**

350. **Systematic Study of Important Diseases.** Given in conjunction with the Department of Pediatrics. Continuation of lectures covering the major diseases in the field of internal medicine. Two hours each week; continuous through F, W, and Sp.
354. **Bedside Teaching Clerkship.** Cook County Hospital and Presbyterian-St. Luke's Hospital. Students are directed in their work by the associates and attending men of these hospitals. Thirty-five hours each week; F, W, and Sp.

#### **Required Courses — Fourth Year**

377. **Outpatient Clerkship.** Research and Educational and Presbyterian-St.

Luke's Hospitals. One-fourth of class. Nine hours each week; S, F, W, and Sp.

378. **Inpatient Clerkship.** Research and Educational Hospitals and West Side Veterans Administration Hospital. Minimum of forty-four hours each week for six weeks; S, F, W, Sp. Additional time may be required at the discretion of the chief of the medical service to which the student is assigned.

**Alternative Quarter Program**

399. **Tutorial Studies in Internal Medicine.** These studies are pursued with members of the Department of Medicine at Chicago-State Tuberculosis Sanitarium, Cook County Hospital, the Hines and West Side Veterans Administration Hospitals, Presbyterian-St. Luke's Hospital, and the Research and Educational Hospitals. An intensive three-month course, under tutorial supervision, in a clinical or investigative area of internal medicine. Forty-four hours each week; S, F, W, and Sp.

**Required Courses — Occupational Therapy Students**

324. **Lectures on Medical Conditions.** Lectures and clinics in medicine for occupational therapy students. Twelve hours of lecture and twelve hours of clinic; Sp.

**MICROBIOLOGY**

*Professors:* NOVAK (Head of Department), KEMPF.

*Associate Professors:* DEINHARDT, HAMMOND, LE BEAU, MEYER, PUMPER, VICHER.

*Assistant Professors:* FORSTER (Lecturer), KHOBYARIAN, KROEGER, SIBAL.

*Instructors:* HUBBLE (Lecturer), LANDAU (Lecturer), SNYDER.

*Assistant:* KNOLL (Emerita).

The course in microbiology is offered during the first and second quarters of the second year. Instruction is based upon a study of fundamental principles involving morphology, physiology, and distribution of bacteria and related organisms. Following a brief study of representative members of nonpathogenic and useful species, the student is introduced to the study of harmful bacteria and the nature of the diseases which they produce, together with antibiotic concepts and immunological and serological considerations. Pathogenic fungi, rickettsia, and viruses are included in this beginning course, as well as organisms responsible for tropical diseases. Special emphasis is placed on the ubiquitous nature of bacteria so that the student can more readily comprehend epidemiological problems and the host-parasite relationship in subsequent courses. Laboratory, diagnostic, and other practical procedures are stressed, as well as the interpretation

of laboratory results in the light of other clinical evidence. During the second quarter, hospitalized patients with typical bacteriological entities are presented as diagnostic problems, and demonstrations are conducted emphasizing important historical data and the need for further laboratory studies. The taking from patients of specimens for bacteriological analysis by proper aseptic technique is demonstrated. Completion of an individual project by each student is required.

Undergraduate courses in microbiology are also offered to dentistry, occupational therapy, nursing, and pharmacy students.

A full program of graduate work, including individual courses in advanced medical microbiology, virology, cytology, genetics, mycology, immunology, and immuno-chemistry, is offered to medical students who can qualify for graduate work leading to the M.S. or Ph.D. degree. Complete descriptions of courses and requirements for registration of medical students for concurrent work toward a graduate degree in microbiology are contained in the Graduate College catalog. Properly qualified medical students are encouraged to gain experience in the field of research through pursuit of graduate studies and to discuss these possibilities with members of the microbiology staff.

#### **Required Courses — Second Year**

325. **Microbiology.** A study of the general morphology, metabolism, serology, and pathogenicity of the important bacterial agents of communicable diseases; action of germicidal agents, sulfonamides, penicillin, streptomycin, and other antibiotics; factors in parasitic offense and mechanisms of host defense. Detailed consideration of pathogenic bacteria. Three lectures and six hours of laboratory each week; F.
326. **Microbiology.** Continuation of Microbiology 325. Detailed consideration of viruses, pathogenic fungi, protozoa, spirochetes, rickettsia, and other microbial agents of disease. Serological methods and routine hospital laboratory procedures applicable to diagnosis of communicable diseases. Two lectures and four hours of laboratory each week; W.

#### **Required Courses — Occupational Therapy Students**

324. **General Bacteriology.** General aspects of bacteriology and immunology including emphasis on preventable aspects of communicable diseases. This course is designed entirely for the needs of occupational therapy students. Three lectures and three hours of laboratory each week for four weeks; F.

## **NEUROLOGY AND NEUROLOGICAL SURGERY**

*Professors: OLDBERG (Head of Department), AVERY, O. T. BAILEY, P. BAILEY (Emeritus), GARVIN, F. A. GIBBS, LICHTENSTEIN, SUGAR.*

*Assistant Professors:* ARNOLD, DIAMOND (*Emeritus*), NELLHAUS.

*Associates:* ROSENBLUTH, ZOLT.

*Research Associate:* MACKLER.

*Instructors:* BURNS, MANFREDI, METRICK, SORUM, TOBIAS.

*Assistants:* ARIAS, HUBBARD, LIPPE, MONTEVERDI, WACASER, WHISLER, YASHON.

*Research Assistants:* E. L. GIBBS, RICH.

Neurology and neurological surgery are the sciences having to do with the diagnosis and treatment of organic medical and surgical conditions affecting the central and peripheral nervous system.

The teaching for sophomore students includes six lectures on the fundamentals of the neurological examination. These are incorporated into the course in physical diagnosis conducted by the Department of Medicine. Five lectures on basic neuropathology are also incorporated into the course in general pathology. Instruction in the winter quarter of the junior year embraces the fundamentals of neurology, including the complete neurological examination of the individual, together with the interpretation of the abnormal findings which exist when various parts of the nervous system are affected. Lectures and clinical presentations on the medical diseases affecting the nervous system, including their symptoms, courses, pathological bases, and treatment, are given in the spring quarter of the junior year. In the senior year, instruction includes a course in clinicopathological correlation of the various processes affecting the nervous system; and a course in the fundamentals of neurological surgery.

A portion (forty students) of the senior clinical clerkship under the direction of the Department of Medicine is assigned to the neurology outpatient department in groups of six, for six weeks each.

Graduate work is also offered in neuropathology and clinical neurology.

#### **Required Courses — Third Year**

**350. Fundamentals of Neurology.** A correlation of the anatomy, physiology, pathology, and clinical examination of the nervous system. One hour each week; W.

**351. Medical Neurology.** Systematic lectures and clinical demonstrations of the principal diseases of the nervous system. One hour each week; Sp.

#### **Required Courses — Fourth Year**

**376. Neurological Surgery.** Lectures and demonstrations of neurosurgical problems. Presented to half the class in one quarter and repeated for second half in next quarter. Two hours a week; F, W.

#### **Alternative Quarter Program**

**399. Clerkship.** A six-week clerkship (mornings only) limited to ten students.

Clerks have both inpatient and outpatient work, attend rounds given by the attending staff, and attend the weekly staff conference, in which cases are demonstrated. In the twelve-week quarter, this allows for two groups of students. Five mornings each week (8:00 a.m. to 12:00 noon) and one conference hour each week (12:00 noon to 1:00 p.m.); S, F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

**324. Neurological Conditions.** A review of anatomy and physiology of the nervous system; types of neuromuscular and sensory disturbances. Twenty hours a quarter; F and Sp.

## **OBSTETRICS AND GYNECOLOGY**

*Professors:* MENGERT (Head of Department), ALLEN (*Emeritus*), BOYSEN, BROWNE (*Emeritus*), EDWARDS, FALLS (*Emeritus*), KLAWANS, LASH.

*Associate Professors:* ANDRESEN, FARLEY, FITZGIBBONS, FREDA, HARROD, KAMINETZKY, KOBAK, LIFVENDAHL, MAUZEY, PRIEST, REZEK, WADDINGTON, WOLFF.

*Assistant Professors:* BAUM, BEEBE, BENENSOHN, BOLEY, BURCHELL, CAREY, DELEE, DiGIULIO, DRAA, FINOLA, GEITTMANN, GIBSON, GLENNER, HEIBERGER, KAYE, KRAUSE, LAVIERI, LOBRAICO, LONG, MARSHALL, PAYNE, PETERSON, ROOS, RUTGARD, SERED (*Emeritus*), SHOLDER, SIEGEL, SMITH, SPIEGEL, STEPTO, TETON, TRUCHLY, TWEEDIE, WALSH, ZUMMO.

*Instructors:* ANGELL, BARTELS, BONERTZ, CHARLES, FAHRENBACH, FALLOON, FARMANS, GOLLIN, GORDON, KOSTELNY, LEE, LEVINE, MULLEN, NYMAN, ORBAN, PILL, ROBIE, RODRIGUEZ, ROSNER, SAMPSON, SCHEWITZ, STONE, SYLVESTER, TOLWINSKY, TREADWELL, VLASIC, WALLHEISER, WIERSMA.

*Assistants:* AIMONE, CLEVENGER, COZAD, DAHLBERG, DONOVAN, FULLER, GARDNER, GOETZ, HANSEN, HEJNA, IRIGOYEN, JUSTEMA, KAHN, KENWICK, OBERHELMAN, OLECK, OLSON, ROTHENBERG, SCALZITI, SHIPKOWITZ, SUSSMAN, SYKORA.

Obstetrics and gynecology are presented to the student as a single discipline. The obstetrician-gynecologist deals with woman as a person, during her reproductive career, and with those functional aberrations and diseases of the female generative tract occurring during any time of life.

Teaching begins in the second year when this department participates in a course in physical diagnosis, given by the Department of Medicine. Two lectures are given to the entire class, and in addition, students in small groups spend two periods of three hours each in the clinic learning the principles of history-taking and pelvic and prenatal examination.

Following a weekly lecture course in the third year, the major teaching of

this department is during the fourth year through the medium of a three-month clinical clerkship.

### **Required Courses — Third Year**

**350. Principles of Obstetrics and Gynecology.** The anatomy, physiology, pathology, the major disease concepts of the female genital tract, and the physiology and pathology of reproduction are presented in a series of integrated lectures. Entire class, one hour a week throughout the academic year; F, W, and Sp.

### **Required Courses — Fourth Year**

**375. Clerkship.** Each senior student spends twelve weeks on the obstetric-gynecologic service. Approximately four-fifths of the students serve clerkships at Research and Educational Hospitals. During two weeks of this clerkship, the student is expected to stay in a dormitory ward in the hospital twenty-four hours a day, on call for all events transpiring in the birth rooms. One-fifth of the students serve clerkships at Presbyterian-St. Luke's Hospital. The entire time of each student is assigned to the Department of Obstetrics and Gynecology, irrespective of which hospital he serves. The student serves as a junior house officer, or clinical clerk, and is responsible for histories, physical examinations under supervision, and the delivery of such normal patients as may be assigned to him. Each student should expect to deliver about ten women. He also participates in all gynecologic operative procedures on his assigned patients. The student attends certain ward rounds, classes, seminars, manikin demonstrations, tumor conferences, journal clubs, and in general is merged into the total program of the department. S, F, W, and Sp.

**376. Cook County Hospital Case Presentation.** Students in small groups are detached to attend weekly case presentations and demonstrations at Cook County Hospital. S, F, W, and Sp.

#### **Alternative Quarter Program**

**399. Clerkship.** This clerkship offers training in depth above the level provided by the obstetric-gynecologic clerkship. The program includes ward care, formal teaching in pathology, literature and patient care seminars, and a study of pelvic malignancy including cancer conference, general principles of therapy, and radiation and surgical techniques. Selected students may be given the opportunity to meet the course requirements by pursuing an independent, limited research project or by assisting in ongoing departmental research in cooperation with a senior staff member. Limited to five seniors. Prerequisite: Senior clerkship in obstetrics and gynecology. S, F, W, and Sp.

## OPHTHALMOLOGY

*Professors:* KRONFELD (Head of Department), BEARD (*Emeritus*), HUGHES, MONCREIFF (*Emeritus*).

*Associate Professors:* APPLE, FOWLER (*Emeritus*), HAAS, PEARLMAN, SNYDACKER, THEOBALD (*Emeritus*), ZEKMAN.

*Assistant Professors:* ALLEN, FOLK, GROSSMANN (Lecturer), HERBST, ISER, KIRK, MAHER, McDONALD, McGARRY, MUNDT, PUSHKIN, SCHALL, SCHERIBEL, STILLERMAN, URIST, WILDER.

*Associates:* BAYARD, BROWN, CARROLL, CATION, DEUTSCH, FORDON, JUSKA, KRIMMER, LEECH, LIGHT, MURPHY, OLEARI, PERRY, RUSSMAN, SPIRO, TATAR, TENNENBAUM, TICHO, TRESLEY.

*Instructors:* FOX, HINKEN, MENACHOF, NOWICKI, RABB, SCHMIDT, WHITSELL.

*Assistants:* ASGAR, CAIRNS, GARFINKLE, KAHN, KAPLAN, McDANIEL, MENDELBLATT, RENPENNING, RICE, SLATT, VAIKER.

The goal of the instruction in ophthalmology is to enable the student to integrate the principles of basic science into the problems of ocular disease, to learn about the techniques of examination of the eye, to know the ocular manifestations of systemic disease, and to recognize the common ocular diseases likely to be encountered in general practice.

This instruction is given in the form of lectures and multilithed notes during the fourth year.

Supplemental practical work in ophthalmology (clerkship in ophthalmology) is offered during the alternative quarter.

### Required Courses — Fourth Year

**375. Didactic Instruction.** Illustrated lectures and multilithed notes covering (1) eye manifestations of general systemic disease and (2) ocular diseases commonly encountered in the general practice of medicine. Presented to half the class during the first two quarters and repeated for the second half during the next two quarters. One hour a week; S, F, W, and Sp.

#### Alternative Quarter Program

**399. Clerkship.** Participation (under supervision) in clinical and hospital activities of the department, including attendance at clinical conferences, in specialty clinics and surgery. Limited to three students a period. Full time for two weeks; S, F, W, and Sp.

## ORTHOPAEDIC SURGERY

*Professors:* RAY (Head of Department), F. W. HARK, LAMBERT.

*Associate Professors:* FOX, HECK, MURPHY (*Emeritus*), SCUDERI, F. SHAPIRO.

*Assistant Professors:* APFELBACH, HOWARD, MARSHALL, MEANY, J. E. MILLER, L. F. MILLER, PELLICORE, ROSS, SHAFER, TURNER (*Emeritus*).

*Research Associates:* SABET, SANKARAN.

*Instructors:* AHSTROM, AOUAD, COMFORT, CRONIN, DEWALD (on leave of absence for military service), GAVIN, GRIFFIN, HAMILTON, W. A. HARK, HEJNA, MENGUY, NYMAN, PETERSEN, RICH, VARZINO.

*Assistants:* BADGER, BARMADA, GALANTE, JOHNSON, NESSET, ROTHMAN, J. S. SHAPIRO.

Orthopaedic surgery is that branch of medicine dealing with investigation, preservation, restoration, and development of the form and function of the extremities, spine, and associated structures by medical, surgical, and physical methods.

The aim of the undergraduate teaching program of the department is to give the student some fundamental knowledge of diseases and deformities as they affect the locomotor systems. The fundamental principles of treatment are covered, including the application of casts, braces, traction, medical management, and surgery. A secondary aim is to help the student develop the skills necessary to carry out an examination and reach a diagnosis, as well as to treat the patient. During the undergraduate years, emphasis is placed on the relationship between the basic sciences, the clinical aspects of orthopaedics, the other fields of medicine and surgery, and the paramedical services.

During the sophomore year, instruction is given in the general principles of functional anatomy as they relate to the examination of the patient.

During the junior year, a series of demonstrations and conferences is given on the principles of differential diagnosis and treatment of the major orthopaedic conditions. The purpose of this course is to lay a sound foundation for the clinical clerkship which is held during the senior year.

The clerkship provides the student with an opportunity to see first-hand many orthopaedic conditions both in adults and children, to scrub with the surgical team in the operating room, to assist in the application of traction and casts, and to follow cases on the wards and in the clinics. Special seminars are held on regional examination of the musculo-skeletal system, office orthopaedics, trauma, and rehabilitation. In addition, during the senior year, instruction is given in the general principles of diagnosis and treatment of fractures.

For interested and qualified medical students, special opportunity is provided to participate in an advanced clerkship or in the departmental research program.

Postgraduate study in orthopaedics is provided through residencies which lead to national board eligibility.

### **Required Courses — Third Year**

**350. Clinical Orthopaedic Surgery with Demonstrations.** Consideration of

orthopaedic problems and the general principles of treatment. Two hours each week; Sp.

### **Required Courses — Fourth Year**

375. **Introductory Course in Fractures.** Discussion of basic principles of fractures and their treatment. One hour a week; F and Sp.
376. **Clerkship.** Observation and study of orthopaedic cases, adult and children, together with practical demonstrations of orthopaedic conditions, ward rounds, seminars, and surgical and outpatient procedures. One month during inpatient quarter; S, F, W, and Sp.

#### **Alternative Quarter Program**

399. **Clinical Clerkship.** Opportunity is provided for participation in the activities of the Orthopaedic Department including emergencies, special clinics, and seminars. Students electing this course may spend the full period on the fracture service at Cook County Hospital, on the Orthopaedic Service at Presbyterian-St. Luke's Hospital, or the University of Illinois Research and Educational Hospitals, in the research laboratories of the department, or the quarter may be divided into various combinations of the foregoing services depending on the specific interests of the individual student. This course is offered as a further introduction to the diagnostic problems, methods of treatment, and principles of research as applied to the locomotor systems. Prerequisite: Senior orthopaedic clerkship. F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

324. **Orthopaedic Conditions.** A study of the locomotor systems including etiology, symptoms, and treatment of congenital abnormalities, growth and metabolic disorders, injuries, infections, and tumors. F and W.

## **OTOLARYNGOLOGY**

*Professors:* LEDERER (Head of Department), HAYDEN (*Emeritus*), HOLINGER, HOLLENDER (*Emeritus*), W. THEOBALD (*Emeritus*), VAN ALYEA (*Emeritus*).

*Associate Professors:* ANDREWS, BECKER, DALITSCH, DERBYSHIRE, FRIEDBERG, G. K. LEWIS, LEWY, LIVINGSTON, MORWITZ (*Emeritus*), POLLOCK, SCHOOLMAN, SKOLNIK, SNITMAN, SOBOROFF, TOROK, WALLNER, WATKINS (*Emeritus*).

*Assistant Professors:* BLUMENTHAL, BUCKINGHAM, CHAINSKI, COOMBS, ELLIOTT, FRIEDMAN, GREENE, LOEWY, MAGGIO, MARCUS, PLOTKIN, RATKO, SATZ, SAVITT (*Emeritus*).

*Associates:* BARTLETT, BLUMKLOTZ, DALE, GYORKEY, KODROS, KOWAL, KURTH,

JEANTET, MANSUETO, ORRICO, SMILEY (*Emeritus*), P. W. THEOBALD, WEIDEMANN.

*Instructors:* BORKENHAGEN, CASCIARO, CONNER (on leave of absence for military service), FERRER, E. LEWIS, MAURIZI (on leave of absence for military service), McHALE, MOZER, PIERCE, RAZIM, SCARAMELLA, SCHILD, SCHOTLAND, SIEDENTOP, SIRUGO, SPRINGER, TENTA.

*Assistants:* BRODER, BROWN, COMITO (on leave of absence for military service), EGGERT, FAGELSON, GRIFFITH, GUEMMER, LAKER, MASSARI, NYKIEL, ROSNAGLE, SERMONTE, SMALL, SMOLER, TOOHILL, VAN NUYS, VELEK.

Otolaryngology concerns itself with the study of the upper respiratory system, the upper digestive tract, and the special senses of speech, hearing, and olfaction in health and in disease. This includes the social, physiological, and physical aberrations present when malfunction affects any of these systems. The diversity of systems and regions studied lends itself to emphasis upon divisions of the specialty, such as otology, rhinology, laryngology, bronchoesophagology, maxillofacial surgery, and audiology.

Otology, the study of the functions of the ear, not only has for its primary aim the diagnosis and treatment of diseases of the ear, but also the equally important facet of the social rehabilitation of the deaf and hard of hearing. So great are the social implications of disturbed speech and hearing, that audiology forms an important division of otolaryngology. Bronchoesophagology concerns itself with direct visualization, diagnosis, and therapy of conditions which affect the esophagus, larynx, and tracheobronchial tree.

The primary aim is to teach the undergraduate to recognize disease or malfunction in these systems and to evaluate the method of arriving at a correct diagnosis so that therapy may be intelligently applied.

For the practicing otolaryngologist, courses are offered in bronchoesophagology and in current trends in otorhinolaryngology. Those desiring to specialize in otolaryngology may enroll in a basic course designed to teach the principles and the methods of the specialty. Residencies, under departmental supervision, are available in the Research and Educational Hospitals, the Illinois Eye and Ear Infirmary, Presbyterian-St. Luke's Hospital, and Hines Veterans Administration Hospital.

The following divisions are represented: (1) otolaryngology, (2) bronchoesophagology, (3) speech and hearing rehabilitation, and (4) maxillofacial surgery, including neoplasms of the head and neck. The required course of study is so arranged that didactic instruction precedes practical application of the specialty, emphasizing its relation to general medicine in a total person concept. Physical examination of the ears, nose, and throat is taught in the second year. As part of a pediatric clerkship in the third year, these diagnostic methods are given special emphasis with reference to clinical states in infants and children. In the fourth year, instruction is given in the basic principles of the specialty by lectures augmented by conferences in small groups, and through

opportunities to apply the principles of diagnosis and treatment in outpatient clinics where the student is taught by direct contact with patients.

### **Required Courses — Fourth Year**

**376. Clinical Instruction in Ear, Nose, Sinuses, Pharynx, and Larynx.** Surgical anatomy, physiology, applied pathology, and treatment. Presented to half the class during the first two quarters and repeated for the second half during the next two quarters. One hour a week; S, F, W, and Sp.

#### **Alternative Quarter Program**

**399. Clerkship.** The program includes student participation in the examination, diagnosis, and treatment of acute conditions, planning for more chronic conditions, and the follow-up care of patients in the outpatient clinic. This is conducted under supervision at the Research and Educational Hospitals, at Presbyterian-St. Luke's Hospital, and at the Illinois Eye and Ear Infirmary. There also is opportunity to assist in surgery and to join ward rounds on postoperative patients. The speech and hearing staff at the Illinois Eye and Ear Infirmary demonstrates and supervises student participation in their special aspects of diagnosis and treatment. Attendance at the weekly departmental tumor conference and the weekly seminar are an integral part of the student's assignment and experience. Students join with members of the house staff in their educational and service experiences. Every afternoon, Monday through Friday, for six weeks; S, F, W, and Sp.

## **PATHOLOGY**

*Professors:* KRAKOWER (Head of Department), BENNETT, FULLER, HASS, KING, LEVINSON (*Emeritus*), McGREW, MILLES, PIRANI, SAPHIR, STERN.

*Professorial Lecturer:* CAHN-BRONNER (*Emeritus*).

*Research Professor:* CATCHPOLE.

*Associate Professors:* AYER, BAUER, GRIMM, JOHNSON, KEARNS (*Emeritus*), LEARNER, LEROY, MASON, RUSS, SHANBERGE, SWERDLOW, THOMPSON.

*Assistant Professors:* ALEXANDER, CHEATLE, CLASEN, EISENSTEIN, ERWIN, ESH-BAUGH, FLEISCHER, FLOBERG (Lecturer), FRIEDERICI, HIRSCH (Lecturer), HOFFMAN, SCHWEITZER, VALAITIS, VAN PERNIS, WONG.

*Associates:* HABEGGER, MALONEY.

*Research Associates:* GRANT, GREENSPON.

*Instructors:* BATTIFORA, ECKNER, GYORI, HOSEK, JABLOKOW, KLINE, MAHONY, NOVAK, POHLMAN, PRITCHARD, ROSEN, SHAKERIN, SURVIS.

*Assistants:* BOLAN, MINSEK, SMITH, TABATABAI, VYE.

Pathology is that branch of natural science which is concerned with disease,

its essential nature, its causes and development, and the structural and functional changes occurring in the living bodies in which the disease exists.

Thus, following courses in anatomy, biochemistry, and physiology in the first year, the student is prepared to begin the study of pathology. General pathology is given during the first quarter of the second year. Special pathology and clinical pathology are presented in a single integrated program during the second and third quarters. A course in surgical pathology, given in collaboration with the Department of Surgery, is offered in the third year.

### **Required Courses — Second Year**

**325. General and Clinical Pathology.** The basic principles of pathological processes, including tissue injury and repair, inflammation, circulatory disturbances, retrograde processes, and tissue responses to specific infectious agents and neoplasms, are considered in the first part of the course. In the latter part, the disease processes affecting each organ and anatomic system are considered in greater detail. The pathologic physiology and biochemistry of disease are closely integrated with the morphologic changes. Essential diagnostic laboratory procedures are discussed as to their purpose and the manner of evaluating the results. The laboratory exercises are designed to correlate and interpret the gross and microscopic changes occurring in diseased tissues. Essential diagnostic laboratory tests are performed in relation to the diseased organ or system under study. Ten hours each week, F; nine hours each week, W; eleven hours each week, Sp. In addition, each student is expected to attend at least seven autopsies during the year for a total attendance of 21 hours.

### **Required Courses — Third Year**

**351. Surgical Pathology.** In conjunction with their clinical work, the surgical clerks study systematically gross and microscopic specimens illustrating the common lesions removed by surgical procedures. One two-hour period each week in addition to the regularly scheduled surgical-pathologic conferences; F, W, Sp, and S.

### **Required Courses — Fourth Year**

**376. Legal Medicine.** Principles of law governing individual and professional rights and obligations; rights and obligations arising from the relationship of doctor and patient and their enforcement in court; expert testimony; state medical statutes and general law. Presented to half the class during one quarter and repeated for the second half during the next quarter. One hour each week; F and W.

#### **Alternative Quarter Program**

**399. Clerkship in Pathology.** Students electing this clerkship may spend the

full quarter either in the division of anatomic pathology or in the division of clinical pathology, or the quarter may be divided into six weeks in each of the divisions, or six weeks in one of the divisions. The clerkship in anatomic pathology includes participation in autopsy work, surgical pathology, and in exfoliative cytology. In clinical pathology, instruction has been arranged in the fields of clinical chemistry, clinical serology and blood banking, clinical bacteriology, and hematology, with particular reference to clinical correlations. During the clerkship, students are expected to attend the departmental conferences in pathological anatomy and clinical pathology. S, F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

**324. Introduction to Pathology for Students in Occupational Therapy.** Reactions of tissues to injury, healing of wounds, certain aspects of neoplasia, and the more important diseases of the locomotor system. Twenty hours of lectures and demonstration; W.

## **PEDIATRICS**

*Professors:* SCHULMAN (Head of Department), BIGGS (*Emeritus*), BRONSTEIN, BUTLER (*Emeritus*), CHRISTIAN, GREENGARD, GRULEE (*Emeritus*), HARRISON, HOFFMAN, HOYNE (*Emeritus*), McCULLOCH (*Emeritus*), SANFORD (*Emeritus*), SHAW, SPAETH.

*Associate Professors:* BRESLOW, CORNBLATH, DAMMERS, HALPERN, LEICHENGER, LEWISON, LIS, MILLER, MINHAS, PACHMAN, RICHTER, ROSENTHAL, STULIK (*Emeritus*), WELFORD, WELKER.

*Assistant Professors:* ABILGAARD, AGUSTSSON, ARCILLA, BARRON, BOHNING (*Emeritus*), BUCHELERES, BUDZEIKA, CHABOT, CHRISTOPHERSON, CRAWFORD (*Emeritus*), DE YOUNG, HALL, HYDE, JACKSON, KRAVITZ, KRUGLY, LANDER, LENDRUM, LIMOSANI, MACK, NAGEL, NELLHAUS, NEWMAN, PARKER, POLNIASZEK, PREC, SACHS, SACKS, SHMIGELSKY, SINGH, STEPAN, SWARTS, THOMAS, TREVINO, WOLF.

*Research Associates:* FISCHER-WYBREGT, REISNER.

*Instructors:* BICOFF, BUZDYGAN, CELEWYCYZ, CHAO, CUNNINGHAM, FEINBERG, GOTOFF, HERZ, ISAACSON, JONES, KELLER, KNOBLOCK, LO PRIORE, LUBIN, MORALES, NOLAN, PAWLINSKYJ, PEREZ, WACHTEL.

*Assistants:* ANDERSON, ARBOIT, BAKER, BLATT, EDELSTEIN, ERICKSON, HARTNETT, JOHNSON, JOORABCHI, KILEY, LIMP, MOORE, NAMIN, O'NEAL, RAMEY, SNOW.

*Research Assistants:* ASROW, STEPHENS, TAN.

The major portion of instruction in pediatrics is given in the junior year by means of a twelve-week clinical clerkship devoted to the study of care

of infants and children. During the clerkship each student spends six weeks on an inpatient pediatric service and six weeks in a pediatric outpatient clinic. One-half of the group spends six weeks on the inpatient pediatric service at the Cook County Children's Hospital and six weeks in the outpatient clinic at the Research and Educational Hospitals. The other half of the group spends six weeks on the inpatient pediatric service at the Research and Educational Hospitals and six weeks in the outpatient pediatric clinic at the Presbyterian-St. Luke's Hospital. During the inpatient service the student is placed in intimate contact with the problems of diagnosis and treatment of the sick child. In the outpatient clinics emphasis is placed on the ambulatory patient and on preventive pediatrics as demonstrated in well-baby clinics. In each portion of the clerkship the history and physical examination of the patient are performed initially by the student, following which the case is discussed with an instructor. By having six continuous weeks on the inpatient service the opportunity for following the course of patients is afforded. In the outpatient department the student is assigned a new patient daily as well as the return visits of patients he has previously seen. Whenever possible the student is encouraged to participate in diagnostic and therapeutic procedures which are performed on his patients.

On the wards the student participates in ward rounds, seminars, and special conferences which are conducted by the resident and attending staffs. At the Research and Educational Hospitals student seminars in pediatrics are held four afternoons weekly during which case presentations are made by the student for discussion with members of the faculty.

During the clerkship small groups of students also receive instruction at the Cook County Contagious Hospital and at the Illinois State Pediatric Institute, thus providing experience in communicable and neuropsychiatric problems of children.

Throughout the clerkship the processes of normal physical and emotional growth and development are emphasized, as are the total implications of illness on the child and on his family.

### **Required Courses — Second Year**

**326. Systematic Study of Important Diseases in Childhood.** In cooperation with the Department of Medicine a series of lectures in Pediatrics and Medicine are begun in the spring quarter of the sophomore year. The pediatric lectures in this series stress the introductory aspects of the study of children with the specific reference to physical and psychological growth and development, nutrition, and the special problems of the newborn infants. Two hours each week; Sp.

### **Required Courses — Third Year**

**350. Systematic Study of Important Diseases in Childhood.** This combined lecture series in cooperation with the Department of Medicine continues

a lecture course begun in the sophomore year and covers the major diseases in the field of pediatrics. By combining the medicine and pediatric lectures, an integrated approach to illness is made possible and the comparative aspects of diseases in children and adults are highlighted. Two hours each week continuous through F, W, and Sp.

**351-352. Clinical Clerkship.** Conducted at Cook County Hospital, Presbyterian-St. Luke's Hospital, and the Research and Educational Hospitals. Six weeks of inpatient ward service and six weeks of outpatient pediatric clinic service. Thirty-five hours each week; F, W, and Sp.

#### **Alternative Quarter Program**

**398. Advanced Tutorial Studies in Clinical Pediatrics.** The student will spend the entire quarter on the inpatient service at either the Research and Educational Hospitals or the Presbyterian-St. Luke's Hospital. He will be given increased responsibility for care of patients, performance of diagnostic tests, participation in ward activities, conferences, rounds, and seminars under the direction of the resident and attending staffs. Limited to two students per quarter at Research and Educational Hospitals and two at Presbyterian-St. Luke's Hospital. S, F, W, and Sp.

**399. Pediatric Sub-Specialties and Research.** The student will spend the entire quarter in one of the subdivisions of the Department of Pediatrics devoted to a particular field. He will participate in the special diagnostic procedures performed in the individual laboratories as well as in the research program of each. The student will also participate in the rounds, conferences, and clinics devoted to the sub-specialty. The following divisions in the Department of Pediatrics will accept students:

1. Hematology — Research and Educational Hospitals
2. Cardiology — Research and Educational Hospitals
3. Cardiology — Presbyterian-St. Luke's Hospital
4. Endocrinology and Metabolism — Research and Educational Hospitals
5. Newborn Physiology — Research and Educational Hospitals
6. Neurology — Research and Educational Hospitals
7. Cytogenetics — Research and Educational Hospitals

A maximum of two students per quarter may be enrolled in each division. S, F, W, and Sp.

#### **Required Courses — Occupational Therapy Students**

**324. Pediatric Occupational Therapy.** The role of the occupational therapist in pediatrics. Twelve hours of lecture; F, W, and Sp.

## **PHARMACOLOGY**

*Professors:* UNNA (Head of Department), CAMP, CAVALLITO (Lecturer), DRILL (Lecturer), ISBELL (Lecturer), McGUIGAN (*Emeritus*), SHERROD.

*Associate Professors:* SCHULMAN, SMITH.

*Assistant Professor:* GOMOLL.

*Research Associates:* AMER, CAPEK, MURAYAMA, VOGEL.

*Instructor:* DAVID.

*Research Assistant:* SANGHVI.

Pharmacology is that branch of medical science which deals with the qualitative and quantitative aspects of the action of drugs upon living organisms. The required courses in pharmacology are specifically designated to acquaint the student with the properties and mechanisms of action of drugs used in diagnosis, prevention, and treatment of disease, thereby providing a rational basis for therapy.

Modern pharmacology embraces many areas such as pharmacodynamics, chemotherapy, toxicology, drug metabolism, psychopharmacology, and pharmacotherapeutics. Pharmacodynamics is the study of the effects of chemical agents, including drugs, on cell function by experimentation on living tissues ranging from cell fractions to the whole organism; these drug-induced alterations in function and metabolism are measured by methods which are common to pharmacology, physiology, and biochemistry. Chemotherapy is the study of selective toxicity of drugs for microorganisms and parasites; studies of compounds designed to exert a selective toxicity for neoplastic cells form the basis of cancer chemotherapy. Toxicology concerns itself with the noxious action of chemical compounds and the means of combating their inimical effects. Psychopharmacology explores the effects of drugs on mood and behavior employing, among other procedures, psychometric methods developed by psychologists. Pharmacotherapeutics deals primarily with the clinical use of drugs, their action, effectiveness, and indications and contraindications in treating patients presenting signs and symptoms of abnormal functions.

It is evident that pharmacology is interwoven with all medical sciences. A clear comprehension of the chemistry of drugs and the biochemical and physiological response which they may influence is prerequisite to the interpretations of pharmacodynamics. Comprehension of the effects of drugs on pathological processes requires a clear understanding of the normal anatomy and the pathology of the structures affected.

Pharmacology is also closely connected with all branches of clinical medicine; rational medication is based upon accurate diagnosis and a concise knowledge of the action of the drug prescribed, either to combat the cause of the disease or to correct a dysfunction caused by the disease.

Students who wish to obtain further knowledge and experience in pharmacology and pursue research in pharmacology are encouraged to consult the

department. Such opportunities are available throughout the year to qualified medical students. Special courses in advanced topics of pharmacology are given under the auspices of the Graduate College and are listed in the Graduate College catalog.

### **Required Courses — Second Year**

**325-326. Pharmacology, Toxicology, and Chemotherapy.** Lectures and discussion periods, W and Sp; three-hour weekly laboratory, W; two-hour weekly demonstration, Sp.

### **Elective Courses — Not for Credit**

**406. Rational Application of New Therapeutic Agents.** Presentation of pharmacological and toxicological considerations of recently developed drugs and of their rational use in therapeutics. Lectures. Sp.

## **PHYSICAL MEDICINE AND REHABILITATION**

*Professors:* ABRAMSON (Head of Department), KENDELL.

*Associate Professors:* GORDON, WASSERMAN.

*Assistant Professors:* CHU, KOHN.

*Instructors:* ORYSHKEVICH, SALOMON.

*Research Assistants:* TUCK, ZAYAS.

Physical medicine and rehabilitation is concerned with the application of physical agents for diagnostic and therapeutic purposes. The physical and other properties of heat, light, electricity, water, massage, and exercise are employed for the prevention of deconditioning, mobilization of joints, increase in strength, power, and endurance, for muscle re-education or improvement in general health and physical fitness. The techniques and procedures of physiatrics assist in the maximal utilization of residual abilities for total rehabilitation purposes. They include training in the physical skills required for independent living. Among the special services offered by the department are electrodiagnosis and electromyography.

### **Alternative Quarter Program**

**399. Practical Application of Physical Medicine and Rehabilitation.** This course is intended to acquaint the student with the physiologic and clinical basis for the use of physical therapeutic modalities and of rehabilitative procedures. Instruction in the various diagnostic tools and in the different treatment programs will be emphasized. Hospital and clinic patients are utilized. Two-week, full-time clerkship; S, F, W, and Sp.

## **Required Courses — Occupational Therapy Students**

### **324. Physical Medicine and Rehabilitation for Occupational Therapy Students.**

An introduction to the use of physical medicine in the rehabilitation of the physically handicapped. Lectures and demonstrations covering the physiologic basis of therapeutic exercise, utilization of physical modalities, methods of disability evaluation, principles of physical restoration and body mechanics, the use of assistive devices, and an analysis of disorders commonly referred to physical medicine with a discussion of therapeutic measures employed. Twenty-four hours of lectures; W.

## **PHYSIOLOGY**

*Professors:* WOLF (Head of Department), HIMWICH (Lecturer), INGRAHAM, IVY (Emeritus), MARBARGER, REED (Emeritus), WHITEHORN.

*Associate Professors:* ALPERT, DARROW (Lecturer), GREENBERG, OMACHI, SCHWARTZ.

*Assistant Professors:* GRIMM, MAROTTA, MORESSI, TAYLOR, TEDESCHI.

*Instructor:* MCCROREY.

Physiology is the study of living organisms, organs, tissues, and cells with emphasis on their normal functions. It utilizes the knowledge, theories, and techniques of the physical and mathematical, as well as the biological sciences, but it remains a strict discipline with a flavor of its own.

The teaching program for undergraduate students of the College of Medicine treats mainly human and mammalian physiology. It provides a sound basis for the remainder of the curriculum and for subsequent medical practice or graduate study. Through this program the student acquires: (1) a body of knowledge in the broad discipline of human physiology appropriate to his ultimate goal of becoming a physician, (2) an understanding of relevant facts, principles, theories, and methodologies, (3) ability to translate, analyze, interpret, and utilize physiologic information, and (4) a professional attitude of responsibility for his own learning and conduct, and a skill in locating information independently.

Interested students are encouraged to pursue advanced work in physiology in the Graduate College program of the department. Opportunities to do so may be explored in consultation with staff members. Extended course offerings of the Department of Physiology are listed in the Graduate College catalog.

## **Required Courses — First Year**

**301. Human Physiology.** Physiology of muscle and nerve, blood, circulation, and respiration. Lectures, conferences, demonstrations. Three hours each week; F.

**302. Human Physiology.** Continuation of Physiology 301. Physiology of the

gastrointestinal tract and liver, temperature regulation and endocrines, and radiation. Lectures, conferences, demonstrations, and laboratory. Six hours each week; W.

**303. Human Physiology.** Continuation of Physiology 302. Physiology of the kidney, body fluids, central nervous system, and senses. Lectures, conferences, demonstrations, and laboratory. Five and one-half hours each week; Sp.

## **PREVENTIVE MEDICINE**

*Professor:* LEPPER (Head of Department).

*Associate Professors:* McCAHAN, OSTFELD, ROSENTHAL, SPIES.

*Assistant Professors:* ANDELMAN (Lecturer), HAIR, HULL (*Emeritus*), LASHOF, LEVITSKY, STEINBERG.

*Research Associates:* MACKLER, METZGER.

*Instructors:* GOSS, STEBLEY.

*Research Assistants:* ECHOLS, FIEDLER, NORSEN, ROSE.

The objectives of the Department of Preventive Medicine are to make the student aware of the importance of the hereditary and environmental factors in health and disease with special reference to the social and economic factors; to relate these factors to the problems of patients; to familiarize the student with the various community agencies which are helpful in the conservation of health and in the prevention and treatment of illnesses; and to coordinate the student's knowledge of the techniques which are now available for the physician's use in the prevention of disease.

The basic information in this field is covered in lectures and demonstrations in the second year. The lectures are based on the principles of epidemiologic methodology.

By studying patients, students in the senior year are given the opportunity to integrate their thinking about diseases in terms of the environment-host relationship. From this material the broad concepts of the natural history of disease in the individual and in population groups are developed. This knowledge is related to social and environmental factors in health and disease, including the attitudes of the public and members of the medical profession.

### **Required Courses — Second Year**

**330. Preventive Medicine and Public Health.** Given in conjunction with the Department of Public Health. Same as Public Health 330. Lectures and demonstrations covering the principles of epidemiology and of the prevention of disease and the relation of the practicing physician to public health agencies. One hour for five weeks; F. One hour for six weeks; W. One hour each week; Sp.

## **Required Courses — Fourth Year**

**375. Social Environment in Relation to Illness.** An inpatient clerkship for the entire class. Patients are studied on the medical and surgical wards and particular attention is paid to an enumeration of the environmental factors which may have been important conditioning or etiologic factors; family history and other evidence of host predisposition; and prior management as related to early diagnosis and natural history. Case review of this material leads to consideration of socio-economic, physical and biologic, environmental, genetic, immunological, and early diagnostic factors. Statistical consideration is given paramount attention as it pertains to expected course, prevention, and treatment. Prevention is considered at all levels, including health promotion and education, specific prevention, early diagnosis, disability limitation, and rehabilitation. In addition to the individual review of patients, a formal one and one-half hour conference is held each week by department members for the entire group of clerks. Four hours a week during inpatient quarter; S, F, W, and Sp.

### **Alternative Quarter Program**

**399. Preventive Medicine and Public Health.** Given in conjunction with the Department of Public Health. Same as Public Health 399. Elective courses for the alternate quarter of a medical curriculum. Students may choose any of three programs which are available. All three have in common a twenty-four-hour course in principles of epidemiology and twenty-four hours of seminars on principles of preventive medicine. In one program the remainder of the time is spent in research with one of the study groups in the Departments of Preventive Medicine or Public Health. Research experience in infectious disease epidemiology, immunology, human behavior, and human genetics is offered. The second experience is a series of clerkships in infectious diseases in five hospitals coupled with study of the appropriate community agencies in this field. The third program is an organized study of various noninfectious diseases, industrial health, health plans, cancer detection, and health promotion and education, including appropriate community agencies.

## **PSYCHIATRY**

*Professors:* SABSHIN (Head of Department), F. ALEXANDER (*Emeritus*), BAILEY (*Emeritus*), BOSSELMAN, CARMICHAEL, GERTY (*Emeritus*), GRINKER, HAGGARD, JOSSELYN (*Emerita*), MEDUNA, MOHR (*Emeritus*), NIELSON, TOWER, URSE, WALTERS (Lecturer), WEINBERG.

*Associate Professors:* ABOOD, BEISER, BENJAMIN, CARTWRIGHT, GIOVACCHINI, GYARFAS, HAINES, HANDLER, HOFFMAN (*Emeritus*), KAPLAN, KOKETSU,

McMILLAN, A. A. MILLER, MORRISON, POLLOCK, R. E. ROBERTSON, ROSENTHAL, ROSENWALD, RUDY, SHERMAN (*Emerita*), SHERWOOD, SHIMBEL (Lecturer), SOLOMON, STEED.

*Assistant Professors:* J. M. ALEXANDER, ALTSCHUL, ARMSTRONG, ARONOV, ARONSON, BENEZRA, BERNSTEIN, BIEL (Lecturer), BOLIN, BROCKMAN, BUETTNER, CARLSON, CHAPLIK, CHEIFETZ, COOKE, T. N. DAVIS, DE LA TORRE, DRYE, EISEN, ELSTEIN, EVANS, GEDO, GINSBERG, GOODMAN, GREEN, H. A. GREENBERG, N. GREENBERG, GREENE, GROSS, GWYER, HALASZ, HALPERIN, HANNI, HARMAN, HARRIS, HAUG, ISRAEL, JENKIN, JENSEN, KITT, KLUMPNER, KOENIG, KOFF, LAGE, LEVINE, LEVITIN, LIEBMAN, LIFSON, LOESCH, LONGINI, MASON, MCPHERSON, J. MILLER, MINTEK, MOORE, W. H. MURRAY, MYRAN, NEMECEK, NUDELMAN, OKEN, PASKIND (*Emeritus*), PERKINS, PHILLIPS, RANKY, RHEAD, A. ROBERTSON, RUEHR, SABLE, SCHWARZ, SEGENREICH, SHAIJOVA, SKLANSKY, G. SMITH, SPURLOCK, SUSLICK, TOURLENTE, VICTOR, VISOTSKY, WASSERMAN, WEIMER, WEISDORF, WRIGHT, ZIPORYN.

*Research Associates:* GOMBOS, ISAACS, KIMIZUKA, KITAMURA, KOYAMA, LEBOVITS, MENDEL, OTSUKI, SHEKELLE, TYROLER, WATANABE.

*Instructors:* BAKONY, BARNETT, BOROWITZ, BRUNNGRABER, BUCK, CASTILLO, O. DAVIS, DEVRIJER, FREEDMAN, GARRON, HEINZE, HIRSCH, JACOBSON, KATZ, KEMPTON, KLING, KRAMER, LUSTIG, MARCUS, MARQUINEZ, McDONALD, E. MURRAY, MUSLIN, NORTON, NYQUIST, OFFER, PARZEN, PERCE, PESKIND, PIEPER, RACK, ROCAH, ROSS, SASKILL, SCHWARTZ, A. J. SMITH, A. T. SMITH, SWANSON, TABIN, VAN PEEL, WEINSTEIN, WHITMAN, WIED, WILLRICH, A. A. WOLOSHIN, G. S. WOLOSHIN, YUFIT, ZALIS.

*Assistants:* KELLY, ZEIDEL.

*Research Assistants:* ALLEN, CEKAN, SCRUGGS, WHITNEY.

### **Required Courses — First Year**

**310. Growth, Development, and Deviations of the Personality, I, II, and III.** An orientation course presenting the correlation between psychologic, physiologic, sociologic, and psychiatric forces on the individual and his social environment. The first two quarters cover the dynamic aspects of the personality from birth through adolescence. Throughout, the emphasis is not only on the immediate period studied but also on its relationship to subsequent developments. Formal lectures and case demonstrations are used. Direct experience in observation is provided through individual case contacts on the pediatric service. The third quarter covers the period of young adulthood, middle age, senescence, and death. Reference to material studied previously is constantly made. Collaboration with the Department of Preventive Medicine is utilized, and there is a special emphasis on dynamisms which are of importance in general or specialized medical practice. Fundamentals of psychiatric interviewing and history-

taking are presented in orientation to the psychosomatic approach. Formal lectures, informal discussions, and case demonstrations are used. Opportunity is given for well-qualified, interested students to substitute a seminar approach instead of the formal lectures. One hour each week; F, W, and Sp.

#### **Required Courses — Second Year**

325. **Introduction to Clinical Psychiatry: Psychopathologic and Therapeutic Approach.** The sophomore course in psychiatry is designed to present principles of psychopathology and therapeutic approaches utilized in psychiatry. It is also correlated more specifically with the other courses given in the sophomore medical curriculum, as well as with material that was presented in the freshman course in psychiatry. Wherever possible, clinical material is used to illustrate the above. An introduction to interviewing techniques is carried out. The first quarter is devoted to a study of the neuroses and allied conditions. The second quarter is concerned primarily with the psychotic disturbances. One hour each week; F and W.

#### **Required Courses — Third Year**

350. **Clinical Descriptive Psychiatry.** The clinical course for juniors deals with the integration of general psychiatry and psychopathology to medical practice. Presentation is oriented to a somatopsychic approach with emphasis on patient-doctor relationships. Selected systemic diseases are used for illustration. One hour each week; F.

351. **Clinical Clerkship.** The chief instruction in the first year of the clinical years is given in this course. Principles of interviewing and doctor-patient interaction are taught, under supervision, by demonstration interviews and direct work with patients. Conferences are held demonstrating the group approach, including psychology and social work. Patients are assigned from the Neuropsychiatric Institute, the wards of the Research and Educational Hospitals, Cook County Mental Health Clinic, Presbyterian-St. Luke's Hospital, West Side Veterans Administration Hospital, and the Illinois State Psychiatric Institute. One half day a week for twelve weeks while on the regular medical clerkship and a similar amount of time while on the pediatric clerkship; F, W, and Sp.

#### **Required Courses — Fourth Year**

375. **Clerkship.** The major focus in the clerkship offered to the senior medical student is on the one-to-one contact with a patient presenting primarily emotional imbalance. The individual student attends the outpatient clinic at the Neuropsychiatric Institute and at Presbyterian-St. Luke's Hospital two mornings per week for one quarter and is assigned a case to be seen either for diagnostic appraisal for a short period of time or for a more

thorough evaluation for ten to eleven weeks. Each interview is followed by a supervisory session with an attending physician during which time emphasis is placed on formulating the patient's conflicts, understanding the current and historical stresses operating in the patient to produce the character studied and the conflict, and gaining an insight into the psychotherapeutic interventions that would be attempted. The clinical interviews and supervision are followed by a seminar, given each day of the program on the following topics: introduction to psychiatric interviewing; introduction to personality development; introduction to psychological testing; psychosomatic correlation seminar; introduction to psychotherapy.

On several occasions during the quarter, groups of students are taken to medical and surgical wards to interview patients in an attempt to understand their reactions to illness and hospitalization. Here an attempt is made to view the patient in a comprehensive manner and to view the emotional aspects of the illness as an influencing agent on the patient's reaction to the illness. In summary, the senior psychiatry clerkship attempts to focus on the following areas: (1) observation and understanding of people's emotional problems combined with insight into intervention that would be attempted; (2) the introduction to the concept of psychophysiologic disequilibrium as it applies to organic and emotional illness; and (3) understanding the facets of doctor-patient relationships with an introduction to the concept of the doctor as a therapeutic agent. S, F, W, and Sp.

#### **Alternative Quarter Program**

**399. Clinical Programs in Psychiatry.** The elective program in the Department of Psychiatry will focus on helping the student to apply the insights of psychiatry and related behavioral science disciplines to the clinical problems he will meet in his internship and future career. To a large extent the program outlined for each individual student will be designed to evaluate and increase his current level of understanding, and to utilize the student's own motivation and direction. The staff will try to encourage individual creative study and thinking, critical analysis of classical and current literature, and careful study of patients with special emphasis on aspects of the doctor-patient relationship applicable to any branch of medicine.

- a. Students with special interest in psychiatry will be encouraged to broaden and deepen their knowledge of the field without sacrificing their hard-won identification with medicine proper.
- b. Students with interest in general medicine, internal medicine, pediatrics, surgery, or other fields will be encouraged to use this opportunity to supplement their knowledge of psychiatry, and particularly to integrate their studies with those of their primary interest.
- c. Certain students will be permitted to continue already established

research in the Department of Psychiatry, in lieu of other activities in the elective program.

d. Regular activities will include seminars in psychiatric literature, psychotherapy, child psychiatry, psychology, work with acutely ill patients, and outpatient work with patients and their families. A supervised individual project will be expected.

Limited to six seniors. Every morning Monday through Friday; S, F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

**324. Psychiatry for Occupational Therapy Students.** A brief description of the major neuroses and psychoses is presented. Emphasis is upon understanding the development of the personality, the factors which contributed toward the development of the illness, and the methods to be employed in the handling of specific problems presented by the patient in occupational therapy. Twenty-four hours of lectures; F.

## **PUBLIC HEALTH**

*Professors:* SHAUGHNESSY (Head of Department), BATSON.

*Associate Professor:* PISZCZEK.

*Assistant Professors:* ABRAMS, FATHERREE (Lecturer), KLASSEN, McDANIELS, MORSE (Lecturer).

*Research Associate:* DOVE.

Public health has been defined as "the science and the art of preventing disease, prolonging life, and promoting physical and mental health and efficiency through organized community efforts for the sanitation of the environment, the control of community infections, the education of the individual in principles of personal hygiene, the organization of medical and nursing service for the early diagnosis and preventive treatment of disease, and the development of social machinery which will ensure to every individual in the community a standard of living adequate for the maintenance of health."

The objectives of the Department of Public Health are to provide the student with information about the agencies through which community action for the prevention of disease and conservation of health are fostered; to show the ways in which these are related to the physician and how they may aid him in his practice; to point out the responsibilities of the physician to official public agencies; and to provide the student with the basic information which will permit him to assume his place in the community health program.

The student receives an introduction to public health in the basic courses given during the second year. He is given further opportunities to learn about community health in the third and fourth years through a teaching program which is integrated with those of some of the clinical departments.

A program of graduate work, including courses in biometrics, occupational health, and epidemiology is offered to medical students who are qualified. These courses are described in the Graduate College catalog.

### **Required Courses — Second Year**

**330. Preventive Medicine and Public Health.** Given in conjunction with the Department of Preventive Medicine. Same as Preventive Medicine 330. Lectures and demonstrations covering the principles of the prevention of disease and the relation of the practicing physician to public health agencies. Two hours each week; Sp.

#### **Alternative Quarter Program**

**399. Public Health and Preventive Medicine.** Given in conjunction with the Department of Preventive Medicine. Same as Preventive Medicine 399. Elective courses for the alternate quarter of a medical curriculum. Students may choose any of three programs which are available. All three have in common a twenty-four-hour course in principles of epidemiology and twenty-four hours of seminars on principles of preventive medicine. In one program the remainder of the time is spent in research with one of the study groups in the Departments of Preventive Medicine or Public Health. Research experience in infectious disease epidemiology, immunology, human behavior, and human genetics is offered. The second experience is a series of clerkships in infectious diseases in five hospitals coupled with study of the appropriate community agencies in this field. The third program is an organized study of various noninfectious diseases, industrial health, health plans, cancer detection, and health promotion and education, including appropriate community agencies. S, F, W, and Sp.

### **Elective Courses**

**376. Industrial Hygiene.** A discussion of the relation of the industrial environment to diseases of occupational and nonoccupational origin. Elective for senior students. One hour each week; W.

## **RADIOLOGY**

*Professors:* HARVEY (Head of Department), SQUIRE, WACHOWSKI.

*Research Professor:* Moos (Radiation Physicist).

*Associate Professors:* BEILIN (*Emeritus*), BUENGER, CLARK, KIRSH, LEADER, LIEBNER, LOCHMAN, MELAMED, PETERSEN (*Emeritus*).

*Assistant Professors:* ALCORN, BAKER, BOGDONOFF, BRAUN, HALKO, HENDRICKSON, HEYDEMANN, HIBBS, HILL, HOCHHAUSER, OVADIA, PATTERSON, SANDBERG, SCHWARZ, WHITNEY.

*Instructors:* BAEHR, BERLIN, BORCHART, CALENOFF, FORDHAM, GREENFIELD, HAAS, HUSSEY, LEEF, MAIER, MCGINNIS, SAMET, STRIMLING.

The aim of the teaching program is to familiarize the student with X-ray methods of analysis as applied to anatomy, physiology, and pathology. Continual emphasis is placed on the ever-increasing scope of radiology, the indications for, and limitations of, various diagnostic and therapeutic procedures, the physical, biological, and genetic principles underlying radiation hazards, and means of preventing or minimizing dangers.

The teaching program is continuous throughout the four years of medical school. First-year students are provided with films for anatomical study and are encouraged to participate in patient fluoroscopic examinations to correlate motion, function, and relationships with dissection material. During the second year, there is close correlation between X-ray and autopsy findings. In the clinical years, there is constant integration of X-ray with the various branches of medicine through case study, conferences, and rounds. Radiology is represented at most of the formal conferences throughout the four years.

### **Required Courses — Second Year**

**349. Radiology.** This is a survey course covering diagnostic and therapeutic fields of radiology. Diagnosis is approached through general discussions of underlying physical and mechanical principles of different types of equipment, purpose of different types of examinations, patient preparation, patient tolerance, and limitations of various examinations. Emphasis is placed upon normal ranges, significant variations, and abnormal findings. The therapeutic portion includes actions and uses of radium, roentgen rays, and radioactive isotopes. Biological effects of radiations, public health aspects of atomic medicine and warfare, and selected items of criminal detection and legal identity and responsibility are included. Lectures and demonstrations one hour each week; Sp.

### **Required Courses — Third Year**

**374. Clinical Radiology.** Logic and technic of X-ray interpretation are taught in small groups. Correlation of patients' symptoms and X-ray findings is made by clinical rounds. Detection and management of cancer is taught by demonstration and discussion in tumor clinics, wards, operating rooms, and the radiation therapy section. Given in conjunction with clinical clerkships. F, W, and Sp.

#### **Alternative Quarter Program**

**399. Clerkship in Radiology.** A two-week full-time assignment in the radiology department at either the Research and Educational Hospitals or Presbyterian-St. Luke's Hospital. Clerks are part of the radiological team in the daily management of diagnostic, therapeutic, and isotopic patient load,

attend all conferences participated in by the radiologists, study a selected group of teaching file cases, and are given helpful reading assignments in fundamental radiologic problems. S, F, W, and Sp.

## **SURGERY**

*Professors:* COLE (Head of Department), A. G. ANDERSON, H. L. BAKER (*Emeritus*), BARBER, BEATTIE, DE TAKATS (*Emeritus*), FELL, GILCHRIST, GREELEY, JENKINS (Lecturer), JULIAN, LANGSTON, LASKIN, MILLER (*Emeritus*), NADEAU (*Emeritus*), OLECH, OLWIN, PUESTOW, REYNOLDS, SLAUGHTER, STRAUS, THOREK.

*Associate Professors:* CURTIN, DAVIS, DE PEYSTER, DIFFENBAUGH, DIGGS, DYE, ECONOMOU, EVERSON, FOWLER, GARSIDE, GROVE, GUY, HAZLETT (*Emeritus*), JAVID, JENSIK, JIRKA (*Emeritus*), KILBOURNE, J. D. KOUCKY (*Emeritus*), LAWTON, LYON (*Emeritus*), G. O. McDONALD, McMILLAN, MONROE, MRAZEK, ODEN (*Emeritus*), PARKER (*Emeritus*), REQUARTH, ROBINSON, SCHNEEWIND, L. W. SCHULTZ (*Emeritus*), SEED, SOUTHWICK, STROHL, THEIS.

*Assistant Professors:* ALMQUIST, R. E. ANDERSON, ATTERBURY, BLACK, BRANCH, C. D. BROWN, CANHAM, CANNON, CROSS, EASTMAN, GIBBEL, GILLESBY, GREEN, GUYNN, HALEY, HANSELMAN, HARDT, HARRIDGE, HESS, HUNTER, HUTCHINGS, IRENEUS, JAMIESON, F. R. JOHNSON, KAISER, KNOCK, KOPPEL, LEKAN, LOOBY, LOPEZ-BELIO, MAJARAKIS, MATSON, O. G. McDONALD, H. I. MEYER, MILLOY, OLANDER, ORNDORFF, PETERSON, PRIBBLE, SELLETT, SHAMBAUGH, SHOREY, STOKES, STREHL, STUEBNER, WASICK, WEINBERG, WERELIUS, WITKOWSKI.

*Instructors:* R. J. BAKER, B. R. BANCROFT, J. H. BANCROFT, BARKER, BROCCOLO, BUCKNER, BUINAUSKAS, CAGLE, CAREY, CHEEMA, CORRELL, DAINKO, FAGARASON, FEILER, FISCUS, FRISCH, GABEL, GAZET, GLASSFORD, GRAIVIER, HAMILTON, HAMLIN, HARRIS, HINKAMP, HOCHMAN, HUMPHREY, JENSEN, KENWELL, KIRSTEINS, C. J. KOUCKY, LAWRENCE, LENIT, LEWIS, LONG, MANSOUR, MASON, McANDREW, MCKIBBIN, McNALLY, NAJAFI, OTT, OVERSTREET, PASTNACK, E. G. PAUL, H. A. PAUL, PEPPER, PICKEN, PROFFITT, RAFFENSPERGER, RASMUSSEN, RENAUD, ROBERTSON, SCHMIDTKE, R. J. SCHULTZ, SOHN, SOMERNDIKE, STARSHAK, SWERDLOW, TARIZZO, TRUPPMAN, WEBB, WHITE, WITANOWSKI.

*Assistants:* BADER, BEATTY, BLUM, BRACKETT, J. A. BROWN, CALDWELL, DOOLAS, ELLENBY, GORDON, GRAHAM, HENGESH, JEWEL, JONASSON, KOZAK, H. J. LEVIN, LIKHITE, McKNELLY, MEHL, MINSTER, PARSA, ROMSDAHL, RUBEN, SANDROLINI, J. D. SCHMIDT, SWENSON, TUVESON, VANDER VENNET, WILLIAMS.

*Research Assistant:* McIVER.

The major functions in undergraduate teaching of surgery are to teach

surgical diagnosis, preoperative and postoperative care, and the principles of operative technic. Several additional years of intern and residency experience are required to obtain sufficient training in operative technic and judgment to qualify as a surgeon.

In the sophomore year the student receives an introduction to surgery through conferences and lectures given partly as interdepartmental conferences by members of the surgical department and partly as an independent lecture series.

In the junior year the student begins clerkship work on the ward where he takes the patient's history, performs examinations, and scrubs with the surgical team in the operating room when his patients come to surgery. In the preoperative preparation of the patient and particularly in the postoperative care, the student comes in direct contact with the clinical application of physiology, biochemistry, and the other basic sciences, because in this phase of surgery the correlation with other specialties is very close. Numerous clinics are held during this clerkship period when problems in various surgical specialties as well as in general surgery are discussed.

In the senior year the student continues with a ward clerkship, but in addition is assigned work in the various surgical dispensaries. Likewise, various surgical clinics are held where the patient is used as a basis for presentation and discussion of surgical problems.

### **Required Courses — Second Year**

**326. Introduction to Surgery.** This is an introductory course in surgery designed to present basic information needed by the student to assist him in correlation of the clinical features of surgical patients. Two hours each week; Sp.

### **Required Courses — Third Year**

**350. Surgical Clinic.** Research and Educational Hospitals. One hour each week; F and W.

**351. Surgical Pathology.** Research and Educational Hospitals. In conjunction with Surgery 353 and in collaboration with the Department of Pathology. A systemic gross and microscopic study of common lesions removed by surgical procedures. One two-hour period a week; F, W, and Sp.

**353. Surgical Clerkship.** Students are assigned patients and are responsible for the history, physical examination, and the initial laboratory work. General (also emergency), thoracic, oral, pediatric, plastic, and vascular surgery are included. Research and Educational Hospitals, Presbyterian-St. Luke's Hospital, Cook County Hospital, and West Side Veterans Administration Hospital. Thirty-eight hours each week; F, W, and Sp.

### **Required Courses — Fourth Year**

375. **Surgical Outpatient Clerkship.** Surgery dispensary, tumor clinic, cardiovascular surgery, and genitourinary surgery. Students participate in history taking, diagnosis, minor surgery, and surgical dressings. Research and Educational Hospitals and Presbyterian-St. Luke's Hospital. Three three-hour clinic periods plus one three-hour period in clinical anatomy each week; S, F, W, and Sp.

376. **Surgical Inpatient Clerkship.** Research and Educational Hospitals. Students are assigned to the orthopaedic wards and clinics for thirty-six hours a week for four weeks. Two weeks are spent on anesthesia with night call in the Emergency Room; S, F, W, and Sp.

377. **Tumor Clinic.** One hour each week for six weeks; S, F, W, and Sp.

#### **Alternative Quarter Program**

399. **General Surgery and Surgical Specialties.** These programs are offered in order to permit small groups of senior students during the alternative quarter to study in depth certain surgical specialties or to enter into research within the Department of Surgery. These courses are offered as full-time clerkships at either Research and Educational Hospitals or Presbyterian-St. Luke's Hospital or other hospitals associated with the University teaching program. The clerkships are not a repetition of the regular senior clerkship. Rather, the student spends all his time in the area of the particular specialty under the guidance of one faculty member. A student wishing to engage in research may carry out a problem of his own choice or participate in a faculty member's research program. The following clerkships and research experiences are offered: (1) research in surgery at the Research and Educational Hospitals (tumor, general surgery, tissue culture, cardiovascular surgery, and anesthesia) and at Presbyterian-St. Luke's Hospital (tumor, blood coagulation, cardiovascular surgery, and tissue transplantation); (2) specialty clerkships (tumor clinic, urology, emergency service, anesthesia, recovery room). Total enrollment limited to twenty-six students with no more than two or three students in any one area of research or specialty program. S, F, W, and Sp.

### **Required Courses — Occupational Therapy Students**

324. **Surgical Conditions.** Physical conditions which are treated through surgery, including definitions, causes, symptoms, prognosis, and possible complications. Surgical treatment in relation to the value of occupational therapy in preoperative and postoperative treatment, with consideration for the patient's total rehabilitation. F and Sp.

### **UROLOGY**

*Professors:* N. J. HECKEL, KIEFER.

*Associate Professors:* GRAF, GRAUER, J. H. McDONALD, MERRICKS.

*Assistant Professors:* BAUMRUCKER, BLANDY, DRABANSKI, HAEGER, W. C. MEYER, PAPIERNIAK, RITCH, SCHACHT.

*Instructors:* BERRY, CALAMS, CALLAHAN, COTTRELL, DENIZ, DIAZ, FLANAGAN, MCKIEL, VALENTA, WIGGISHOFF.

*Assistant:* SMITH.

### **Required Courses — Third Year**

353. **Clerkship.** Given in conjunction with Surgery 353. Students are assigned patients and are responsible for the history, physical examination, and initial laboratory work. They also attend ward rounds. Research and Educational Hospitals, Presbyterian-St. Luke's Hospital, Cook County Hospital, and West Side Veterans Administration Hospital. F, W, and Sp.

361. **Clinical Urologic Seminar.** The more important urologic conditions are covered in detail by discussion and demonstration of patients. One hour each week; F, W, and Sp.

### **Required Courses — Fourth Year**

375. **Urology Dispensary.** History-taking, examinations, and treatment. Research and Educational Hospitals and Presbyterian-St. Luke's Hospital. Given in conjunction with Surgery 375. S, F, W, and Sp.

## **ANESTHESIOLOGY**

*Professors:* SADOVE (Head of Section), BALAGOT, MORCH, SEARLES.

*Associate Professors:* LYONS (Emerita), J. L. SCHMIDT.

*Assistant Professors:* CAWLEY, M. J. LEVIN, NATOF, REMLINGER, ROSENBERG, SEN, SEYMOUR, SHIMA, YON.

*Associate:* KEELING.

*Instructors:* BERLIN, GLEAVE, E. HECKEL, KATZ, NELSON, PAPRIKOFF, ROSE, SANTELICES, SCHWARTZ, TENNANT, TOMITA, VALENTI, VITRUNGS, WALLACE.

*Assistants:* ALBRECHT, ASHCRAFT, CARREIRA, DANGREMOND, FLEITES, GRACE, HELLER, ILLEL, KOKORUDZ, LEON, MADRILEJO, MELBY, C. W. PASTIKA, M. F. PASTIKA, RAYMON, RIVERA, RODRIGUEZ, ROE, SABIN, SILINS, SOKKAR, TOYOOKA.

### **Required Courses — Fourth Year**

376. **Clerkship.** Given as part of Surgery 376. Research and Educational Hospitals. The student is assigned to anesthesia full time for two weeks. Under supervision he gives anesthesia to patients in the operating room. S, F, W, and Sp.

378. **Principles of Anesthesia.** One hour each week. S and W.

## **OFFICE OF RESEARCH IN MEDICAL EDUCATION**

*Director:* MILLER.

*Associate Director:* FISHER.

*Assistant Director:* McGUIRE.

*Research Associate:* ALLENDER.

The College of Medicine organized in 1959 an office of Research in Medical Education to lend direction to a carefully designed and all-inclusive study of its educational program.



ASSOCIATED MEDICAL SCIENCES

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## **MEDICAL ART**

*Professor:* GOODWIN (Head of Department).

*Assistant Professors:* HOSPODAR, SCHWARZ.

The Department of Medical Art is organized as a department of the University of Illinois at the Medical Center, Chicago, and has working relations with the Colleges of Dentistry, Pharmacy, Medicine, and Nursing.

The department conducts the final twenty months of the five-year course leading to a Bachelor of Science in Medical Art. In addition, it offers service functions related to illustration, photography, and other visual aids.

### **Curriculum Leading to Bachelor of Science Degree in Medical Art**

The first three years of study are undertaken in the College of Fine and Applied Arts, and admission requirements are identical to those of the Department of Art in that College. The fourth and fifth years of study are undertaken in the Department of Medical Art at the Medical Center in Chicago. Transfer students for this curriculum must attend a minimum of two semesters at the College of Fine and Applied Arts at the Urbana campus. In any one year, the number of applicants approved for admission to the final phase of this curriculum is restricted to four. The final twenty months of the curriculum are on the Medical Center campus. Applicants are selected by a committee on the basis of individual qualifications. Preference is given to scholastic records, letters of recommendation (especially from teachers of laboratory courses in science and art), and such special examination as may be determined by the committee. Each prospective student is required to submit a portfolio in person demonstrating such techniques as pen and ink drawings, water colors, life drawings, etc. Applicants must present evidence that a scholastic average of at least 3.5 has been maintained, with a minimum of ninety semester hours of acceptable credit.

The fourth year of study includes: (1) a course in anatomy taken with medical students, consisting of lectures and laboratory work in embryology, histology, neurology, and gross anatomy, including the dissection of an entire human body; (2) drawing in detail of dissections, bones, and organs of the body prepared in conjunction with anatomy studies; (3) special consideration of accurate observation and interpretation of technique and media of illustration such as wash drawings, crayon, pen and ink, and water colors; these media are to be adapted for television and film presentation; (4) lettering and the preparation of chart and graphs as applied to medical subjects.

The fifth year includes practical applications of illustration in the widest sense to publishing and medical education. Emphasis is placed on the theories of visual instruction and the growing responsibility of the illustrator for the improvement of medical education through all types of graphic media by means of: (1) illustrative projects in anatomy, surgery, and pathology, working

from autopsy, operating room, and dissection material; (2) opportunity to participate in the planning, design, and preparation of scientific and lay exhibit material; (3) adaptation of various materials to three dimensional representation of scientific subjects. Techniques for working clays, waxes, plaster, plastic moulages, wood, and metals are among those studied.

The first half-year is a probation period for all students. Hours: 8:00 a.m. to 5:00 p.m. Monday through Friday. Fee for each quarter: residents \$90.00; nonresidents \$207.00.

## **MEDICAL SOCIAL WORK**

*Associate Professors:* PREUCIL (Head of Department), LARGE.

*Assistant Professors:* BINNS, FRASER, GILSON, HEPLER, LOCKHART, MERRIFIELD, SELTZER, TAYLOR, WAITE (*Emerita*).

*Instructors:* CALLAGHAN, ENGANDELA, EXUM, GOSS, HELMS, JOHNSON, LANE, NATUSCH, READ, ROBERTSON, SASSOON, TASSO, TEASON.

The major objective of the Department of Medical Social Work is to help students to observe and to understand the variety of meanings which illness may have for patients and their families; to recognize the pertinence of family relationships and of other social factors in the appraisal of the medical problem and in the determination and success of treatment; to evaluate the significance of such factors in specific situations; and to learn what types of community facilities for rehabilitation are available. In order to help the student to develop skill in carrying out these functions, the department also teaches the methodology for: interviewing; exploration of sources of social information other than the patient; evaluation of observations of patients and others; and use of community resources to the best advantage of the patient. For medical students in the clinical clerkships, this material is integrated into the courses in the various departments of medicine by lectures, seminars, rounds, group discussions, and conferences with one or two or with a small group of students. All teaching is related to patients who are under care in the hospitals or clinics, many of whom are being served by the department.

Students of nursing and occupational therapy are given similar material in didactic lectures and in small group discussions regarding individual patients.

Each year, approximately twenty graduate students of social work from the University of Illinois and the University of Chicago receive their clinical instruction in the department.

## **OCCUPATIONAL THERAPY**

*Associate Professor:* WADE (Head of Department).

*Assistant Professors:* HRUBY, KELLOGG, SCHAD, SLEEPER.

*Instructors: GILLETTE, KELSEY, PERLMUTTER, RAETZMAN, TIERNAN.*

*Assistants: FRATICELLI, LUND, RITTER, SHARPE.*

The Department of Occupational Therapy offers a course of study which leads to the degree of Bachelor of Science in Occupational Therapy. The professional curriculum meets the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association. The curriculum prepares its registrants to function in the following areas: medicine, neurology, orthopaedics, pediatrics, physical medicine, psychiatry, and surgery. Members of the faculty of the above medical specialties, as well as those of pathology and microbiology, provide instruction which orients the occupational therapy student in these fields and affords fundamental information essential to effective function. The close correlation between didactic instruction and practice in planning and administering treatment is effected through supervised clinical experience obtained in the occupational therapy treatment units of the Research and Educational Hospitals and affiliated institutions.

Occupational therapy is the use of directed activities as treatment. The therapist, working under the direction of a physician, contributes to the patient's physical and mental recovery or adjustment to chronic disability. This treatment assists the patient in his social adjustment and emotional development, as well as his physical restoration. Through the use of creative manual activities such as arts, crafts, recreation, music, and drama, the occupational therapist plans activities to meet the individual needs of the patient.

### **Plan of Instruction**

The course is equivalent to five academic years. A portion of the instruction is offered by the College of Liberal Arts and Sciences (six semesters) on the Urbana campus; the last phase of instruction is given in a period of sixteen months by the College of Medicine in Chicago.

For information regarding the requirements for admission and detailed description of this course of study, a copy of the Occupational Therapy bulletin may be procured through the Office of Admission and Records, University of Illinois, Urbana. Inquirers may also write directly to the College of Medicine, 1853 West Polk Street, Chicago 12, Illinois.

## POSTGRADUATE PROGRAMS

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## **POSTGRADUATE PROGRAMS**

Postgraduate programs are under the supervision of the Office of the Dean of the College of Medicine. The faculty consists of the faculty of the College of Medicine. The purpose of these programs is to make available to physicians modern medical knowledge that will result in the best patient care. The policy is to offer general courses as well as special departmental courses. Registration is limited, and applicants must be properly qualified. From time to time announcements are made of courses, giving details of registration, numbers accepted, tuition fees, and similar information.

### **Ophthalmology**

**330. Postgraduate Course in Ophthalmology.** A full-time course designed for those graduates who have completed their internships and wish to specialize in ophthalmology. This is preparatory for a residency in ophthalmology. It consists of the following major aspects, integrated vertically according to the ocular structure as far as possible: (1) basic sciences related to ophthalmology; (2) instruction in the use of ophthalmic instruments and didactic introduction to clinical ophthalmology; and (3) demonstrations of clinical pathology. There are approximately thirty hours of organized instruction each week, including lectures, dissection of the orbit, laboratory work in histology, pathology, microbiology, and geometric optics, demonstrations, seminars, and supervised instruction in refraction and animal surgery. The facilities of both the University of Illinois College of Medicine and the Illinois Eye and Ear Infirmary are utilized. Six months; S and F. Fee: \$500.00. (Not given in 1963-64.)

### **Otolaryngology**

The following courses may be registered for individually or in groups, the time being arranged with the instructor. Additional hours may be scheduled with consent of the head of the department. Applicants must be graduates of a Class A medical school and present acceptable credentials.

**340. Postgraduate Basic Curriculum.** Provides a full-time basic curriculum of instruction for those intending to prepare for special practice. Nine months of the academic year with an addition of a three-month period of clinical work. 9:00 a.m. to 5:00 p.m. Fee: \$150.00 tuition and \$100.00 laboratory each quarter.

**341. Principles of Otolaryngology.** Lectures, demonstrations, cadaver dissection, surgical anatomy, animal and cadaver surgery, physiology, laboratory and photographic technic, histology and pathology, and seminar. Duration: Three months. Fee: \$150.00.

**342. Bronchoesophagology.** Consists of lectures, animal and cadaver work, and actual observation in the bronchoscopic operating room and outpatient

clinics. Includes indirect and direct laryngoscopy, bronchoscopy, and esophagoscopy. May also be scheduled separately by accredited specialists. Didactic and laboratory. Duration: Two weeks. Fee: \$210.00.

**344. Refresher Courses.** Brief review courses of one or two weeks in length covering the more important subjects of the specialty. Largely didactic, they bring to specialists current advances in management, therapy, and philosophies. Held several times during the academic year as determined by need. Fee: \$75.00 a week plus laboratory fee.

In addition to the courses itemized above, intensive one-day seminars on topics of general interest are offered monthly during the academic year. Week-long periods of study in residence in one of several departments are available upon advance subscription.





## **FACULTY OF THE COLLEGE OF MEDICINE**

ABBASI, ABDUL S., Research Assistant in Medicine  
M.B., B.S., King Edward's Medical College (Pakistan), 1957; D.T.M.H., School of Tropical Medicine (England), 1959; M.R.C.P., Royal College of Physicians (Scotland), 1960

ABBOTT, ARTHUR L., Assistant in Medicine  
B.S., University of Illinois, 1959; M.D., 1961

ABILDGAARD, CHARLES F., Assistant Professor of Pediatrics  
A.B., Stanford University, 1951; M.D., 1955

ABOOD, LEO G., Associate Professor of Neurophysiology, in the Departments of Psychiatry and Biological Chemistry  
A.B., Ohio State University, 1943; A.M., University of California, 1944; Ph.D., University of Chicago, 1950

ABRAMS, HERBERT K., Clinical Assistant Professor of Public Health  
B.S., Northwestern University, 1939; M.D., University of Illinois, 1940; M.P.H., Johns Hopkins University, 1947

ABRAMSON, DAVID I., Professor of Physical Medicine and Rehabilitation, Head of the Department, and Professor of Medicine  
M.D., Long Island College of Medicine, 1929

AFREMOW, MELVIN L., Clinical Associate Professor of Medicine  
B.S., University of Illinois, 1928; M.S., 1929; M.D., 1930

AGUSTSSON, MAGNUS H., Clinical Assistant Professor of Pediatrics  
M.D., University of Iceland, 1952

AHSTROM, JAMES P., Clinical Instructor in Orthopaedic Surgery  
B.S., University of Richmond, 1946; M.D., Northwestern University, 1949

AIMONE, JOHN A., Clinical Assistant in Obstetrics and Gynecology  
M.D., University of Illinois, 1945

AKRE, OSMUND H., Clinical Assistant Professor of Medicine  
A.B., Concordia College, 1936; M.D., Rush Medical College, 1940

ALBALA, MAURICE M., Clinical Instructor in Medicine  
B.S., Instituto Ingles (Chile), 1941; M.D., University of Chile, 1949

ALBRECHT, RONALD F., Assistant in Anesthesiology  
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GILLESBY, WILLIAM J., Clinical Assistant Professor of Surgery  
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GILLETTE, NEDRA A., Instructor in Occupational Therapy  
B.S., University of Illinois, 1955

GILSON, NANCY V., Assistant Professor of Medical Social Work  
A.B., State University of Iowa, 1947; M.S., Smith College, 1951

GINSBERG, JAMES P., Clinical Assistant Professor of Psychiatry  
B.S., University of Minnesota, 1947; M.D., 1950

GIOVACCHINI, PETER L., Clinical Associate Professor of Psychiatry  
B.S., University of Chicago, 1941; M.D., 1944

GLASKY, ALVIN J., Assistant Professor of Biological Chemistry  
B.S., University of Illinois, 1954; Ph.D., 1958

GLASSFORD, GORDON H., Clinical Instructor in Surgery  
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GLEAVE, GWEN, Clinical Instructor in Anesthesiology  
B.S., University of Utah, 1946; M.D., 1948

GLENNER, ROBERT J., Clinical Assistant Professor of Obstetrics and Gynecology  
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GOLDBERG, BENJAMIN, Clinical Associate Professor of Medicine, *Emeritus*  
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GOLDMANN, MORTON A., Clinical Assistant Professor of Medicine  
B.S., University of Illinois, 1944; M.D., 1946

GOLDWASSER, MOSES, Assistant Professor of Medicine, *Emeritus*  
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GOLLIN, HARVEY A., Clinical Instructor in Obstetrics and Gynecology  
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GOMBOS, GEORGE, Research Associate in Psychiatry  
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GOODMAN, LOWELL I., Clinical Assistant Professor of Psychiatry  
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GORDON, ROBERT P., JR., Assistant in Surgery  
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GORDON, WILLIAM P., JR., Instructor in Obstetrics and Gynecology  
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GOSS, AGNES D. L., Clinical Instructor in Preventive Medicine  
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GOSS, MARY E., Instructor in Medical Social Work  
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GOTOFF, SAMUEL P., Clinical Instructor in Pediatrics  
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GRAETTINGER, JOHN S., Associate Professor of Medicine  
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GRAF, EDWIN C., Clinical Associate Professor of Urology  
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GRAHAM, ALLAN L., Assistant in Surgery  
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GRAUER, THEOPHIL P., Clinical Associate Professor of Urology  
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GRAY, EARLE, Clinical Associate Professor of Medicine (Rush)  
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GREELEY, PAUL W., Clinical Professor of Surgery  
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GREEN, ALFRED G., Clinical Assistant Professor of Psychiatry  
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GREEN, RAYMOND, Clinical Assistant Professor of Surgery  
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GREENBERG, HAROLD A., Clinical Assistant Professor of Psychiatry  
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GREENBERG, NAHMAN H., Assistant Professor of Psychiatry  
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GREENE, BERNARD L., Clinical Assistant Professor of Psychiatry  
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GREENE, LOIS D., Clinical Assistant Professor of Otolaryngology  
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GREENFIELD, GEORGE B., Clinical Instructor in Radiology  
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GREENGARD, JOSEPH, Clinical Professor of Pediatrics  
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GREENSPON, SEYMOUR A., Research Associate in Pathology  
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GRIEBLE, HANS G., Assistant Professor of Medicine  
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GRiffin, JOHN B., Clinical Instructor in Orthopaedic Surgery  
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GRiFFITH, PAUL R., Clinical Associate Professor of Dermatology  
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GRiFFITH, THOMAS E., Assistant in Otolaryngology  
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GRIMELLI, LUKE J., Clinical Associate in Medicine, *Emeritus*  
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GRiMM, ARTHUR F., Assistant Professor of Physiology  
B.S., Northwestern University, 1953; D.D.S., University of Illinois, 1956;  
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GRiMM, HAROLD A., Clinical Associate Professor of Pathology  
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GRiNKER, ROY R., Clinical Professor of Psychiatry  
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GROSS, DAVID P., Clinical Assistant Professor of Psychiatry  
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GROSZ, EUGENE, Clinical Associate in Medicine, *Emeritus*  
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GROVE, WILLIAM J., Associate Professor of Surgery and Associate Dean of the College  
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GRULEE, CLIFFORD G., Clinical Professor of Pediatrics (Rush), *Emeritus*  
A.M., Miami University, 1901; M.D., Northwestern University, 1903; LL.D., Miami University, 1915

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GUEMMER, GERALD E., Clinical Assistant in Otolaryngology  
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GUNTHER, AARON, Clinical Associate Professor of Medicine  
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GUY, CHESTER C., Clinical Associate Professor of Surgery  
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GUYNN, VERNON L., Clinical Assistant Professor of Surgery  
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GYORI, GUSTAVE, Clinical Instructor in Pathology  
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HANSCOM, DONALD H., Clinical Instructor in Medicine  
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HANSEN, TERRENCE C., Assistant in Obstetrics and Gynecology  
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HARK, FRED W., Clinical Professor of Orthopaedic Surgery  
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HARK, WILLIAM A., Clinical Instructor in Orthopaedic Surgery  
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HARMAN, DAVID S., Clinical Assistant Professor of Psychiatry  
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HARRIS, IRVING D., Clinical Assistant Professor of Psychiatry  
B.S., University of Chicago, 1935; M.D., Rush Medical College, 1939

HARRIS, IRWIN, Clinical Instructor in Surgery  
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HARRISON, JACK C., Clinical Professor of Pediatrics (Rush)  
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HARROD, JOHN P., JR., Clinical Associate Professor of Obstetrics and Gynecology  
M.D., University of Georgia, 1946

HART, ROBERT R., Assistant in Radiology  
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HARTNETT, WILLIAM, Assistant in Pediatrics  
M.D., Loyola University, 1961

HARVEY, ROGER A., Professor of Radiology and Head of the Department  
B.S., Hamilton University, 1933; M.S., University of Rochester, 1938; M.D.,  
1939

HASS, GEORGE M., Professor of Pathology  
M.D., Harvard University, 1929

HAUG, ELSIE L., Clinical Assistant Professor of Psychiatry  
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HAYASHI, JAMES A., Assistant Professor of Biological Chemistry  
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HAYDEN, DANIEL B., Clinical Professor of Otolaryngology (Rush), *Emeritus*  
A.B., St. Viators College, 1900; A.M., 1902; M.D., Georgetown University,  
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HAYES, THOMAS H., Clinical Instructor in Medicine  
A.B., Montana State University, 1936; A.M., 1937; Ph.D., University of  
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HAZLETT, WILLIAM H., Clinical Associate Professor of Surgery, *Emeritus*  
M.D., University of Illinois, 1913

HECK, CHARLES V., Clinical Associate Professor of Orthopaedic Surgery  
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HECKEL, NORRIS J., Clinical Professor of Urology (Rush)  
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HEDBLOM, CARL A., JR., Clinical Associate in Medicine  
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HEDGES, ROBERT N., Clinical Associate in Medicine, *Emeritus*  
B.S., University of Wisconsin, 1915; M.D., Rush Medical College, 1917

HEDGES, ROBERT N., JR., Clinical Instructor in Medicine  
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HEIBERGER, CHARLES J., Clinical Assistant Professor of Obstetrics and Gynecology  
B.S., University of Missouri, 1926; M.D., Rush Medical School, 1929

HEINZE, SHIRLEY J., Instructor in Psychology, in the Department of Psychiatry  
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HEJNA, THOMAS, Assistant in Obstetrics and Gynecology  
A.B., Grinnell College, 1956; M.D., Creighton University, 1960

HEJNA, WILLIAM F., Instructor in Orthopaedic Surgery  
A.B., Grinnell College, 1954; M.D., Washington University, 1958

HELLER, FLOYD N., Assistant in Anesthesiology  
B.S., Northwestern University, 1953; M.D., University of Illinois, 1957

HELLER, PAUL, Associate Professor of Medicine  
M.D., German University (Czechoslovakia), 1938

HELMS, RUTH W., Instructor in Medical Social Work  
A.B., Boston University, 1950; M.S.W., Simmons College, 1953

HENDRICKSON, FRANK R., Assistant Professor of Radiology  
A.B., Swarthmore College, 1947; M.D., Jefferson Medical College, 1950

HENEBRY, WILLIAM F., Assistant in Psychiatry  
B.S., Millikin University, 1954; M.D., University of Illinois, 1960

HENGESH, JOHN W., Research Assistant in Surgery (on leave of absence for military service)  
B.S., University of Illinois, 1958; M.D., 1960

HENRY, JOHN P., Clinical Instructor in Medicine  
B.S., University of Illinois, 1949; M.D., 1951; M.S., 1953

HEPLER, KATHRYN E., Assistant Professor of Medical Social Work  
A.B., William Jewell College, 1933; M.S.W., Washington University, 1947

HERBST, ROBERT R., Clinical Assistant Professor of Ophthalmology  
M.D., University of Illinois, 1940

HERTING, ROBERT L., Clinical Instructor in Medicine  
B.S., University of Illinois, 1950; M.D., 1954; M.S., Illinois Institute of Technology, 1961

HERZ, JANICE R. GREENBERG, Clinical Instructor in Pediatrics  
B.S., University of Illinois, 1948; M.D., 1952

HESS, ROBERT A., Clinical Assistant Professor of Surgery  
B.S., Northwestern University, 1942; M.D., 1945

HEYDEMANN, JULIUS, Clinical Assistant Professor of Radiology  
M.D., University of Berlin (Germany), 1937

HIBBS, GEORGE G., Assistant Professor of Radiology  
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B.S., Franklin College of Indiana, 1915; M.D., Rush Medical College, 1919

HICK, FORD K., Professor of Medicine  
B.S., University of Illinois, 1928; M.D., 1931; M.S., 1933; Ph.D., 1936

HIGHSTONE, WILLIAM H., Clinical Associate in Medicine  
B.S., Northwestern University, 1931; M.D., 1937

HILKEVITCH, B. H., Clinical Assistant Professor of Medicine (Rush), *Emeritus*  
M.D., Imperial University (Russia), 1916

HILL, BILLY JAY, Assistant Professor of Radiology  
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HIMWICH, HAROLD E., Lecturer in Physiology with rank of Professor  
B.S., College of the City of New York, 1915; M.D., Cornell University, 1919

HINKAMP, JOSEPH F., Clinical Instructor in Surgery  
M.D., St. Louis University, 1950

HINKEN, MICHAEL V., Instructor in Ophthalmology  
M.D., Loyola University, 1955

HIRSCH, FRANZ E., Lecturer, with rank of Clinical Assistant Professor, in Pathology  
M.D., University of Jena (Germany), 1927

HIRSCH, JAY G., Clinical Instructor in Psychiatry  
B.S., University of Cincinnati, 1950; M.D., 1954

HOCHHAUSER, MARTIN, Assistant Professor of Radiology  
B.S., University of Illinois, 1945; M.D., 1947

HOCHMAN, LAWRENCE SHERWOOD, Clinical Instructor in Surgery  
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HOEPPNER, WALTER F., Clinical Associate in Medicine  
B.S., University of Chicago, 1923; M.D., Rush Medical College, 1926

HOFFMAN, ALLEN, Clinical Instructor in Medicine  
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HOFFMAN, HARRY R., Clinical Associate Professor of Psychiatry (Rush), *Emeritus*  
B.S., University of Chicago, 1908; M.D., Rush Medical College, 1910

HOFFMAN, ROBERT V., JR., Clinical Assistant Professor of Pathology  
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HOFFMAN, SAMUEL J., Clinical Professor of Pediatrics  
B.S., University of Illinois, 1925; M.D., 1927

HOFFMAN, WILLIAM S., Lecturer in Medicine with rank of Professor  
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HOLINGER, PAUL H., Professor of Bronchoesophagology in the Department of  
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B.S., University of Chicago, 1928; M.S., Northwestern University, 1930;  
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HOLLENDER, ABRAHAM R., Professor of Otolaryngology, *Emeritus*  
M.D., University of Illinois, 1915

HOLMES, ALBERT W., Jr., Instructor in Medicine  
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HORWITT, MAX K., Professor of Biological Chemistry  
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HOSEK, JOSEPH J., Instructor in Pathology  
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HOWARD, FRANCIS M., Clinical Instructor in Orthopaedic Surgery  
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HRUBY, DOROTHY T., Assistant Professor of Occupational Therapy  
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HUBBARD, JOHN L., Jr., Assistant in Neurology and Neurological Surgery  
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A.B., Millikin University, 1947; M.S., University of Illinois, 1949; Ph.D.,  
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HUDSON, EDESEL K., Assistant Professor of Medicine  
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HUGHES, WILLIAM F., Clinical Professor of Ophthalmology  
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HUMPHREY, LOREN J., Instructor in Surgery  
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HUNTER, JAMES A., Assistant Professor in Surgery  
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HUSSEY, FRANK L., Clinical Instructor in Radiology  
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HUTCHINGS, VERNON Z., Clinical Assistant Professor of Surgery  
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HUVER, CHARLES W., Assistant Professor of Anatomy  
B.S., Michigan State University, 1955; M.S., University of Wisconsin, 1962;  
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HYDE, JOHN S., Assistant Professor of Pediatrics  
B.S., Wheaton College, 1940; M.D., University of Illinois, 1944

IGLITZEN, NATHAN J., Clinical Instructor in Medicine  
B.S., Illinois Institute of Technology, 1943; M.D., Northwestern University,  
1950

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INDREIKA, MEILUTE A., Clinical Instructor in Medicine  
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INOUE, TOHRU, Assistant Professor of Biological Chemistry  
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IRENEUS, CARL, JR., Clinical Assistant Professor of Surgery  
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IRONS, EDWIN N., Clinical Associate Professor of Medicine  
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ISBELL, HARRIS, Lecturer, with rank of Professor, in Pharmacology  
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ISRAEL, PATRICK, Clinical Assistant Professor of Psychiatry  
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B.S., Monmouth College, 1936; M.D., University of Illinois, 1940; M.S., 1940

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